RRRRR	RRRRRRRR		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PPPP	AAAA	AAAA AAAA AAAA		DDDDD
RRR	FRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD
RRR	RRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD
RRR	RRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD
RRR	RRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD
RRR	RRR	TTT	PPP	PPP	AAA	AAA	DDD	DDD
RRR	RRR	ŤŤŤ	PPP	PPP	AAA	AAA	DDD	DDD
	RRRRRRRR	ŤŤŤ	PPPPPPP		AAA	AAA	DDD	DDD
RRRRR	RRRRRRRR	ŤŤŤ	PPPPPPP		AAA	AAA	DDD	DDD
	RRRRRRRR	ŤŤŤ	PPPPPPP		AAA	AAA	DDD	DDD
RRR	RRR	ŤŤŤ	PPP			AAAAAAA	DDD	DDD
RRR	RRR	ŤŤŤ	PPP			AAAAAAA	DDD	DDD
RRR	RRR	ŤŤŤ	PPP			AAAAAAA	DDD	DDD
RRR	RRR	ŤŤŤ	PPP		AAA	AAA	DDD	DDD
RRR	RRR	ŤŤŤ	PPP		AAA	AAA	DDD	DDD
RRR	RRR	ŤŤŤ	PPP		AAA	AAA	DDD	DDD
RRR	RRR	tit	PPP		AAA	AAA	DDDDDDDD	
RRR	RRR	ŤŤŤ	PPP		AAA	AAA	DDDDDDD	
RRR	RRR	ŤŤŤ	PPP		AAA	AAA	DDDDDDD	

RRRRRRRR RR RR RR RR RR RR RR RR RR RR RRRRRR		PPFPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	••••
		\$			

R

16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1

Page

V

.TITLE RTPAD - REMOTE TERMINAL PROGRAM .PSECT RTPAD , NOWRT

I 14

\$DEBUGDEF

: *

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: FACILITY: REMOTE TERMINAL SUPPORT

ABSTRACT:

THIS PROGRAM RUNS ON A LOCAL NODE TO ALLOW A TERMINAL TO APPEAR TO BE LOCALLY CONNECTED TO A REMOTE NODE.

ENVIRONMENT: VMS - USER MODE

AUTHOR: W M CARDOZA, CREATION DATE: 20-AUG-79

MODIFIED BY:

V03-017 JLV0362 Jake VanNoy 11-JUL-1984 Add code to signal PC that QUOTA EXCEEDED occured at.

V03-016 JLV0353 Jake VanNoy 10-APR-1984 Add support for SET HOST/DTE ttcn:

V03-015 JLV0324 Jake VanNoy 10-JAN-1984 Fix bug in setting of vax to vax flag.

V03-014 JLV0315 7-DEC-1983 Jake VanNoy Add logical name RTPAD\$LOG for debug purposes.

RTPAD VO4-000

0000	58 :		Used like FAL\$LOG, etc.	
0000 0000 0000	60 : 62 :	v03-013	JLV0295 Jake VanNoy Add looping on non-zero WRITEQIO before Add SET HOST/LOGE=filespec].	28-JUL-1983 exiting.
0000 0000 0000 0000	64 65 66 67 68	v03-012	MHB0093 Mark Bramhall Moved MAXMSG to \$RTPADDEF. Reworked code to use dynamic descriptors Changed the CTERM detection algorithm. Changed handling of PSTHRU messages.	7-Mar-1983
0000	70 71	v03-011	MHB0089 Mark Bramhall Changed LIB\$NET_CONNECT to UNS\$NET_CONNE	11-Feb-1983 CT.
0000 0000 0000 0000 0000 0000 0000 0000 0000	73 74 75 76 77 78	v03-010	JLV0295 Jake VanNoy Add looping on non-zero WRITEQIO before Add SET HOST/LOGE=filespecJ. MHB0093 Mark Bramhall Moved MAXMSG to \$RTPADDEF. Reworked code to use dynamic descriptors Changed the CTERM detection algorithm. Changed handling of PSTHRU messages. MHB0089 Mark Bramhall Changed LIB\$NET_CONNECT to UNS\$NET_CONNECT to UNS\$NET_	17-Jan-1983 p into two modules - the VMS specific ode and comments. n loss of first
0000	80 :	v03-009	WMC0068 Wayne Cardoza Fix the previous DCL fix.	5-0ct-1982
0000 0000 0000 0000	83 84 85 86	v03-008	WMC0067 Wayne Cardoza Fix timing problem when link error arriv mailbox message. Work with new DCL keyword support.	15-Oct-1982 ves before the
0000	88 89 90	v03-007	JLV0214 Jake VanNoy Add Read Verify code as implemented (more by Steve Long.	6-OCT-1982 re or less)
0000	92 :	v03-006	WMC0066 Wayne Cardoza Take care of errors on SENSE MODE.	20-Aug-1982
0000	95 96	v03-005	WMC0065 Wayne Cardoza Don't issue out of band set mode QIO if	7-Jul-1982 no change.
0000	99 :	v03-004	WMC0064 Wayne Cardoza Don't try to disable ^T under MCR.	9-Apr-1982
0000 0000 0000	100 : 101 : 102 : 103 :	v03-003	WMC0063 Wayne Cardoza Zero the buffer before a SENSE.	1-Apr-1982
0000 0000 0000 0000 0000	104 :	v03-002	WMC0062 Wayne Cardoza Add TERMCHAR in DIB format back for RSX.	18-Mar-1982 etc.
0000 0000 0000 0000	106 107 108 109 110 **	v03-001	WMC0061 Wayne Cardoza Send extended characteristics in configu	15-Mar-1982 uration message.

```
K 14
                                                                                             16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 
5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1
RTPAD
                                        - REMOTE TERMINAL PROGRAM DECLARATIONS
                                                                                                                                                                     (1)
V04-000
                                                                       .SBTTL DECLARATIONS
                                                               DEFAULT ADDRESSING MODE
                                                                       .DEFAULT DISPLACEMENT WORD
                                                             INCLUDE FILES:
                                                                                            :DIB OFFSETS :DESCRIPTOR DEFINITIONS
                                                                       SDIBDEF
                                                                       SDSCDEF
                                                                                            GETDVI DEFINITIONS
1/O OP CODES & MODIFIERS
REMOTE DEVICE PROTOCOL
                                                                        SDVIDEF
                                                                       SIODEF
                                                                        SRDPDEF
                                                        126
127
128
129
131
132
133
134
                                                                                            ; *** NEW
                                                                       SRTPADDEF
                                                                       STSADEF
                                                                                            : *** NEW *** tsadef
                                                                                            :TERMINAL DRIVER SYMBOLS
                                                                       STTYDEFS
                                               0000
                                               0000
                                                               EQUATED SYMBOLS:
                                               0000
                                               0000
                                                                       AST CONTROL BLOCK
                                               0000
                                  00000026
                                                                       AST$T_BUF = CTP$B_PRO_MSGTYPE ; DATA BUFFER STARTS HERE
                                               0000
                                  000001FE
                                               0000
                                                             REMS_FACILITY = 510
                                                                                                                ; REMS_ code
                                               0000
                                                            NDF SHR$K SHRDEF
SHR$K SHRDEF = 1
$SHRDEF
                                  00000001
                                                                       SDEFINI SHR
                                                                       . SAVE
                                                                                 LOCAL_BLOCK
                                                                       . IIF
                                                                                 DIF <> <GLOBAL>.. ENABLE SUPPRESSION
                                                                        PSECT SABSS, ABS
                                                                       $GBLINI
                                                                                 IDN <LOCAL> <GLOBAL>
SDEF SYM, ALLOC, SIZ
NB, SYM, SYM:
                                                                       .MACRO
                                                                       :IIF
                                                                                  NB, ALLOC,
                                                                                                      ALLOC
                                                                                                                SIZ
                                                                                 SDEF
                                                                        .ENDM
                                                                        .MACRO SEQU
                                                                                            SYM, VAL
                                                                       SYM==VAL
                                                                        .ENDM
                                                                        MACRO SVIELD1 MOD, SEP, SYM, SIZ, MSK
                                                                       SIZ...=1
                                                                       IIF NB, SIZ, SIZ...=SIZ

IF NB, SYM

MOD'SEP'V SYM==BIT...

IIF NB, SIZ, MOD'SEP'S 'SYM==SIZ

IIF NB, MSK, MOD'SEP'M SYM==<<<1asiz...>-1>abit...>
                                                                       ENDC
BIT..=BIT..+SIZ...
ENDM $VIELD1
.IFF
                                                                                 DIF <LOCAL> <LOCAL> .. ERROR ; ARG MUST BE "GLOBAL", "LOCAL", OR NULL
```

V(

RTPAD V04-000	- REMOTE TERMINAL PROGR	AM 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 Page 4 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1 (1)
	0000 0000 0000 0000 0000 0000 0000 0000 0000	.MACRO \$DEF SYM,ALLOC,SIZ .IIF NB,SYM,SYM: .IIF NB,ALLOC, ALLOC SIZ .ENDM \$DÉF .MACRO \$EQU SYM,VAL .ENDM \$EQU .MACRO \$VIELD1 MOD,SEP,SYM,SIZ,MSK .IIF NB,SIZ, SIZ=SIZ .IIF NB,SYM MOD'SEP'V SYM=BITIIF NB,SIZ, MOD'SEP'S_'SYM=SIZ .IIF NB,SIZ, MOD'SEP'S_'SYM=SIZ .IIF NB,MSK, MOD'SEP'M_'SYM=<<<<1asiz>-1>abit> .ENDC .ENDC .ENDC .ENDM \$VIELD1 .ENDC
000000	0000	.=0
000000	000 0000 SEQU	SHRS_FACILITY 0 SHRS_FACILITY=0
000010	0000 \$EQU	SHR\$_APPENDEDB 4096 SHR\$_APPENDEDB=4096
000016	0000 SEQU	SHRS_APPENDEDR 4104 SHRS_APPENDEDR=4104
000010	0000 \$EQU	SHR\$_BADBYTE 4112 SHR\$_BADBYTE=4112
000010	0000 \$EQU	SHR\$_BADFIELD 4120 SHR\$_BADFIELD=4120
000010	0000 0000 020 0000	SHR\$_BADLONG 4128 SHR\$_BADLONG=4128
000010	0000 0000 028 0000	SHR\$_BADWORD 4136 SHR\$_BADWORD=4136
000010	0000 0000 \$EQU 030 0000	SHRS_BEGIN 4144 SHRS_BEGIN=4144
000010	0000 0000 038 0000	SHR\$_BEGIND 4152 SHR\$_BEGIND=4152
000010	0000 0000 040 0000 8EQU	SHRS_BEGINT 4160 SHRS_BEGINT=4160
000010	0000 0000 \$EQU 048 0000	SHR\$_CLICB 4168 SHR\$_CLICB=4168
000010	0000 0000 050 0000 0000	SHRS_CLOSE IN 4176 SHRS_CLOSE IN=4176

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RTPAD V04-000	- REMOTE TER	MINAL PROG	RAM 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1	Page	(1)
	00001058 0000 0000	SEQU	SHR\$_CLOSEOUT 4184 SHR\$_CLOSEOUT=4184		
	00001060 0000	\$EQU	SHRS_COPIEDB 4192 SHRS_COPIEDB=4192		
	00001068 0000	\$EQU	SHR\$_COPIEDR 4200 SHR\$_COPIEDR=4200		
	00001070 0000	\$EQU	SHRS_CREATED 4208 SHRS_CREATED=4208		
	00001078 0000	\$EQU	SHR\$_ENDED 4216 SHR\$_ENDED=4216		
	00001080 0000	\$EQU	SHR\$_ENDEDD 4224 SHR\$_ENDEDD=4224		
	00001080 0000 0000 0000 0000 0000 0000 0	\$EQU	SHR\$_ENDEDT 4232 SHR\$_ENDEDT=4232		
	0000	SEQU	SHRS_NEWFILES 4240 SHRS_NEWFILES=4240		
	00001090 0000 0000 0000 0000 0000	SEQU	SHR\$_OPENIN 4248 SHR\$_OPENIN=4248		
	000010A0 0000	SEQU	SHR\$_OPENOUT 4256 SHR\$_OPENOUT=4256		
	000010A0 0000 0000 0000 0000 0000 0000	\$EQU	SHR\$_OVERLAY 4264 SHR\$_OVERLAY=4264		
	000010B0 0000 0000	SEQU	SHR\$_READERR 4272 SHR\$_READERR=4272		
	000010B8 0000	SEQU	SHR\$_REPLACED 4280 SHR\$_REPLACED=4280		
	000010B0 0000 0000 0000 0000 0000 0000 0	\$EQU	SHRS_WILDCONCAT 4288 SHRS_WILDCONCAT=4288		
	000010C8 0000	\$EQU	SHRS_WILDOUTVER 4296 SHRS_WILDOUTVER=4296		
	000010p0 0000 0000 0000	\$EQU	SHR\$_WRITEERR 4304 SHR\$_WRITEERR=4304		
	00001008 0000	\$EQU	SHR\$_ABEND 4312 SHR\$_ABEND=4312		
	000010P8 0000 0000 0000 0000 0000 0000 0000 0	\$EQU	SHR\$_ABENDD 4320 SHR\$_ABENDD=4320		
	000010E8 0000	\$EQU	SHR\$_ABENDT 4328 SHR\$_ABENDT=4328		

- RE	MOTE TERMINAL	PROGRAM	N	14	16-SEP-1984 5-SEP-1984	02:15:27 03:15:47	VAX/VMS Macro V04-00 ERTPAD.SRCJRTPAD.MAR;1	Page	(1)
000010F0	0000 0000 0000	SEQU SH	RS_SYSERR	RORPC 4	336 336				
000010F8	0000	SEQU SH	RS_SYNTAX	(=4344	344				
00001100	0000 0000 0000	SEQU SH	R\$_NOVALU	JE=4352	352				
00001108	0000 0000 0000	SEQU SH	RS_BADKEY	=4360	360				
00001110	0000 0000 0000	SEQU SH	R\$_BADVAL	UE = 436	368 8				
00001118		SEQU SH	RS_BADDEL	IM 4 IM=437	376 6				
00001120	0000 0000 0000	SEQU SH	R\$_BADLOG	1C 4 1C=438					
00001128	0000 0000 0000	SEQU SH	R\$_NOWILD	=4392	392				
00001130	0000 0000 0000	SEQU SH	R\$_TEXT R\$_TEXT=4		400				
00001138	0000 0000 0000	SEQU SH	R\$_IDXCON	ICAT 4	408 08				
00001140	0000 0000 0000	SEQU SH	R\$_RELCON	ICAT 4	416 16				
00001148		SEQU SH	R\$_HIGHVE R\$_HIGHVE	R=4424	424				
00001150	0000 0000 0000	SEQU SH	R\$_BADLOG	ICPC 4	432 432				
00001158	0000 0000 0000	SEQU SH	RS_ATPC=4	440	440				
00001160	0000 0000 0000	SEQU SH	R\$_BADCOP	IES 4	448 48				
00001168	0000 0000 0000	SEQU SH	R\$_BADFOR	M=4456	456				
00001170	0000 0000	SEQU SH	R\$_BADJOB R\$_BADJOB	ID 4 ID=446	464				
00001178	0000 0000	SEQU SH	R\$_BADJOB R\$_BADJOB	NAME 4	472 472				
00001180	0000 0000 0000 0000 0000	SEQU SH	R\$_BADPRT R\$_BADPRT	Y=4480	480				

R

RTPAD VO4-000

		B 15			
RTPAD V04-000	- REMOTE TERMINAL PROGRAM DECLARATIONS		16-SEP-1984 02:15:27	VAX/VMS Macro V04-00 ERTPAD.SRCJRTPAD.MAR:1	Page 7 (1)
V04-000	DECLARATIONS		5-SEP-1984 03:15:47	LRTPAD.SRCJRTPAD.MAR:1	(1)

00001188	0000	SEQU	SHR\$_BADQNAME 4488 SHR\$_BADQNAME=4488	
00001190	0000 0000 0000	\$EQU	SHR\$_BADTIME 4496 SHR\$_BADTIME=4496	
00001198	0000 0000	\$EQU	SHR\$_NOQUEUE 4504 SHR\$_NOQUEUE=4504	
000011A0	0000 0000 0000	\$EQU	SHR\$_NOJOBID 4512 SHR\$_NOJOBID=4512	
000011A8	0000 0000 0000	SEQU	SHR\$_NOJOBNAME 4520	
	0000	\$EQU	SHR\$_NOJOBNAME=4520 SHR\$_SYSERROR4528	
00001180	0000 0000 0000	SEQU	SHR\$_SYSERROR=4528 SHR\$_NOTCOPIED 4536	
000011B8	0000 0000	SEQU	SHR\$_NOTCOPIED=4536 SHR\$_NOTCMPLT 4544	
00001100	0000 0000 0000	\$EQU	SHR\$_NOTCMPLT=4544 SHR\$_RMSERROR 4552	
00001108	0000		SHR\$_RMSERROR=4552	
000011D0	0000 0000 0000	\$EQU	SHR\$_UNXPCTSTS 4560 SHR\$_UNXPCTSTS=4560	
00001108	0000 0000 0000	\$EQU	SHR\$_HASHCONCAT 4568 SHR\$_HASHCONCAT=4568	
000011E0	0000 0000 0000	\$EQU	SHR\$_INCOMPAT 4576 SHR\$_INCOMPAT=4576	
000011E8	0000	\$EQU	SHR\$_VALERR 4584 SHR\$_VALERR=4584	
000011F0	0000 0000	\$EQU	SHR\$_FILNOTDEL 4592 SHR\$_FILNOTDEL=4592	
000011F8	0000 0000 0000	\$EQU	SHR\$_CONFDEL 4600 SHR\$_CONFDEL=4600	
00001200	0000 0000 0000 0000	\$EQU	SHR\$_DELETED 4608 SHR\$_DELETED=4608	
00001208	0000	\$EQU	SHR\$_DELVER 4616 SHR\$_DELVER=4616	
00001210	0000 0000	\$EQU	SHR\$_PURGEVER 4624 SHR\$_PURGEVER=4624	
00001218	0000 0000 0000	\$EQU	SHR\$_CLOSEDEL 4632 SHR\$_CLOSEDEL=4632	
00001210	0000		31114_CE03EDEE-403E	

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RT VO

00	001220	0000	\$EQU	SHR\$_DIRTOOBUS 4640 SHR\$_DIRTOOBUS=4640
00	001228	0000 0000 0000	\$EQU	SHR\$_NOFILPURG 4648 SHR\$_NOFILPURG=4648
00	001230	0000 0000 0000	\$EQU	SHR\$_FILNOTPUR 4656 SHR\$_FILNOTPUR=4656
	001238	0000	\$EQU	SHR\$_SEARCHFAIL 4664 SHR\$_SEARCHFAIL=4664
		0000 0000 0000	\$EQU	SHR\$_DELINTERR 4672
00	001240	0000 0000 0000	\$EQU	SHR\$_DELINTERR=4672 SHR\$_PARSEFAIL 4680
00	001248	0000		SHR\$_PARSEFAIL=4680
00	001250	0000 0000 0000	\$EQU	SHR\$_FILPURGED 4688 SHR\$_FILPURGED=4688
00	001258	0000 0000 0000	\$EQU	SHR\$_ENDABORT 4696 SHR\$_ENDABORT=4696
00	001260	0000	\$EQU	SHR\$_ENDDIAGS 4704 SHR\$_ENDDIAGS=4704
00	001268	0000 0000 0000	\$EQU	SHR\$_ENDNOOBJ 4712 SHR\$_ENDNOOBJ=4712
00	001270	0000 0000 0000	\$EQU	SHR\$_HALTED 4720 SHR\$_HALTED=4720
00	001278	0000 0000 0000	\$EQU	SHR\$_NOCMDMEM 4728 SHR\$_NOCMDMEM=4728
		0000	\$EQU	SHR\$ QEMPTY 4736
	001280	0000 0000 0000	\$EQU	SHR\$ QEMPTY=4736 SHR\$ CBT 4744
00	001288	0000 0000 0000	\$EQU	SHR\$_CBT=4744 SHR\$_EXISTS 4752
00	001290	0000		SHR\$_EXISTS=4752
00	001298	0000 0000 0000	\$EQU	SHR\$_UNLOCKED 4760 SHR\$_UNLOCKED=4760
00	0012A0	0000 0000 0000	\$EQU	SHRS_RENAMED 4768 SHRS_RENAMED=4768
00	8AS100	0000 0000 0000	\$EQU	SHR\$_PROTECTED 4776 SHR\$_PROTECTED=4776
00	0012B0	0000	\$EQU	SHR\$_NOTLOCKED 4784 SHR\$_NOTLOCKED=4784
		0000		

RT

D 15

00001288	0000 0000 0000	\$EQU	SHR\$_ACTIMAGE 4792 SHR\$_ACTIMAGE=4792
00001200	0000 0000	SEQU	SHR\$_DIRNOTCRE 4800
00001200	0000	SEQU	SHR\$_DIRNOTCRE=4800 SHR\$_NODESTQUE 4808
00001208	0000	\$540	SHR\$_NODESTQUE=4808
00001200	0000	\$EQU	SHR\$_ILLDESQUE 4816 SHR\$_ILLDESQUE=4816
00001208	0000 0000 0000	SEQU	SHR\$_NOTTERM 4824 SHR\$_NOTTERM=4824
00001206	0000	85011	
000012E0	0000 0000 0000	SEQU	SHR\$_CONFQUAL 4832 SHR\$_CONFQUAL=4832
000012E8	0000	\$EQU	SHR\$_ILLDIRCOPY 4840 SHR\$_ILLDIRCOPY=4840
00001220	0000	*5011	-
000012F0	0000 0000 0000	\$EQU	SHR\$_INSVIRMEM 4848 SHR\$_INSVIRMEM=4848
00001258	0000	\$EQU	SHRS_CREATEDSTM 4856 SHRS_CREATEDSTM=4856
000012F8	0000		
00001300	0000	\$EQU	SHR\$_NOTRUNC 4864 SHR\$_NOTRUNC=4864
	0000	SEQU	SHR\$_PRODNOTINS 4872
00001308	0000	3540	SHR\$ PRODNOTINS=4872
00004740	0000	\$EQU	SHR\$_TOTAL 4880 SHR\$_TOTAL=4880
00001310	0000		_
00001318	0000	\$EQU	SHRS_FILPURG 4888 SHRS_FILPURG=4888
	0000	\$EQU	SHR\$_FILDEL 4896
00001320	0000	20	SHRS_FILDEL=4896
00001328	0000	\$EQU	SHR\$ INVQUAVAL 4904
00001328	0000		SHR\$_INVQUAVAL=4904
00001330	0000	\$EQU	SHRS_NOFILES 4912 SHRS_NOFILES=4912
	0000	SEQU	SHR\$ FILNOTACC 4920
00001338	0000	02.00	SHRS_FILNOTACC=4920
00001340	0000	\$EQU	SHRS QUALMISS 4928
00001340	0000	A F.0.1	SHR\$ QUALMISS=4928
00001348	0000 0000 0000	SEQU	SHRS_FILSPCSRCH 4936 SHRS_FILSPCSRCH=4936
	0000		

. IF EQ SSGBL

.ENDC

.ENDC

REMS_ATPC = 3

REMS_ATPC == 3

.IF IDN, INFO, SEVERE .IF EQ \$\$GBL

REMS_ATPC = 4

REMS_ATPC == 4

. IF EQ \$\$GBL

00000000

VO

RT

10\$

CTERM_FLAG, 20\$

; branch if not cterm

BEQL

BLBC

E9

11 02B2'CF

VC

RTPAD VO4-OOG			- REP	MOTE TE	RMINAL PROGI	RAM	н 15	15-SEP-1984 02: 5-SEP-1984 03:	15:27 15:47	VAX/VMS Macro V04-00 [RTP4D.SRC]RTPAD.MAR;1	Page	13
	0000	°CF OB	D5 13	0017 001B 001D	201 201 200	TSTL BEQL SSETAST	WRITEQI 20\$	ENBFLG = #1	must yup,	also be zero before exiting exit ow ast delivery (turned off b	y QUIT))
	00000000°GF	01 01	DD	001D 001F			GLOBL PUSHL CALLS	L SYSDSEIASI				
		DD	11	0026 0026	203 204 208:	BRB	10\$; loop			
				0028 0028 0028	203 204 205 205 206 207 208 209	Wakeflag is set, exit back to DC		DCL				
	00000000°GF 01	00	0028 0028 0028 DD 0028 FB 002A		209	\$SETAST	-S -GLOBL PUSHL CALLS	ENBFLG = #0 SYS\$SETAST #0 #1,G^SYS\$SETAST	; Shut	down ast delivery		
	0000000 41	VI	10	002A 0031 0031 0031 0031	210	\$CANCEL		CHAN = READCHAN SYS\$CANCEL				
	7E 014C	°CF 01	3C FB	0031			MOVZWL CALLS	READCHAN, -(SP) #1, G^SYS\$CANCEL				
	7E 0158 00000000 GF	°CF 01	3C FB	003D 003D 003D 0042	212	\$CANCEL.	S.GLOBL MOVZWL CALLS	CHAN = TERMMBXCH SYS\$CANCEL TERMMBXCHAN,-(SF #1,G*SYS\$CANCEL				
	7E 0148	* CF	3C FB	0049 0049	213	\$CANCEL	S .GLOBL MOVZWL CALLS	CHAN = MAILCHAN SYS\$CANCEL MAILCHAN, -(SP) #1, G^SYS\$CANCEL				
	7E 0144 CF 3C 005 00000000 GF 01 FB 005	0055 0055 0055 0055	214	\$CANCEL,		CHAN = LINKCHAN SYS\$CANCEL LINKCHAN, -(SP) #1,G*SYS\$CANCEL						
		00	DD	0061 0061 0061	215 216	\$PUTMSG	S MSGVE	C = EXITMSG SYS\$PUTMSG #0 R O CONTEXT=Q	; Tell	user why		
							-11	R O.CONTEXT=Q IDN,O,O #0				
		00	DD	0063 0065 0065			PUSHL IFF PUSHAQ ENDC	0				
		00	DD	0065 0065 0065 0067 0067 0067			SPUSHADI IF PUSHL IFF PUSHAL	R 0 1DN,0,0				

- REMOTE TERM	INAL PROGRAM ROUTINE	16-SEP-1984 02:15:27 5-SEP-1984 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1	Page	14 (1)
0067 0067 0067		PR EXITMSG IDN,O,EXITMSG #0			
0128'CF DF 0067	PÜSHAL ENDC	EXITMSG			
00000000 GF 04 FB 006B 0072	CALLS	#4,G^SYS\$PUTMSG			
0072 2 0072 2 0072 2 0072 0072	17 18 \$QI@_S CHAN = 19 FUNC = .GLOBL \$PUSHT	#4,G*SYSSPUTMSG CNTRLCHAN - ; Get #10\$ SETMODE!10\$M_CTRLY SYS\$QIO #0,#0 IDN.<#0>.<#0>	rid of the ^Y AST request		
00000000 0072	\$\$T1 = .IF				
00000000 0072 0072 0072 0072 0072 0072 0	\$\$T1 =	IDM CROS CROS			
00000001 0072 7E 7C 0072	.ENDC .ENDC	NE \$\$T1 -(SP)			
0074	CLRQ .IFF PUSHL	#0 #0			
0074 0074 0074	PŪŠHL "ENDC	#0			
0074 0074 0074 0074 0074 0074 0074 0074	\$\$11 =				
00000001 0074	. IF . IF \$\$T1 =	IDN, <#0>, <#0> IDN, <#0>, <#0>			
0074 0074 0074	.ENDC				
00000001 0074 7E 7C 0074 0076	.IF CLRQ .IFF PUSHL PUSHL	-(SP)			
0076 0076 0076	PUSHL PUSHL .ENDC	#0 #0			
00 DD 0076	PUSHL \$PUSHAL	#0			
00 DD 0078	, I F	IDN.0.0			
007A 007A	PÜSHL . IFF PÜSHAL . ENDC	0			
007A 007A	\$010PU\$ \$\$11 =	0.0 H			
00000000 007A 007A	. IF	O IDN,<#0>,<#0> IDN,<0>,<0>			
0076 0076 0076 0076 0078 0078 0078 007A 007A 007A 007A 007A	SST1 = .ENDC .ENDC .IF	1			
00000001 007A	.ENDC	NE \$\$T1			

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	- RT	REMOTE TER	MINAL PROGR	AM	J 15	16-SEP-1984 5-SEP-1984)2:15 3:15	:27 YAX/VMS Macro	V04-00 IPAD.MAR;1	Page	15
	7E 7	C 007A 007C 007C 007C 007C			CLRQ IFF PUSHL \$PUSHAD .ENDC	-(SP) #0 R 0					
	00 D	007C 007C 007C 007C 007E 007E			PUSHL IFF	R 0,CONTEXT=Q IDN,0,0 #0					
7E 00A3 7E 0154'	8F 3 CF 3 00 D	C 007E C 0083 D 0088 B 008A 0091			MOVZWL MOVZWL PUSHL CALLS	#10\$ SETMODE!: CNTRECHAN,-(SI #0 #12,6°SYS\$QIO	10 \$M _	CTRLYAST,-(SP)			
00000000°GF	7E D CF D 02 F	0091 0091 0091 0091 4 0091 F 0093 B 0097 009E	220 221 222 223 224 225 226 227 228 229	ČLRL	-(SP) OLDCTRL			resouce wait mode		rs	
00000000 GF	CF D	009E 009E 009E		SSETRWM	S - WATFLG GLOBL PUSHL CALLS	= OLDSETRWM SYS\$SETRWM OLDSETRWM #1,G^SYS\$SETR	;	Set resource wait to whatever it wa	mode as upon entry		
FF:	54' 3	00A9 0 00A9	230 231	BSBW	CTERMSC	LOSE_LOG	;	Close log file if	open		
50 000000000	CF DEBF D	00AC 0 00AC 1 00B1 2 00B8	232 233 234 235	MOVL CMPL BNEQ	RETSTATE #SS\$_EXE 100\$	US.RO QUOTA,RO		Get saved status Exceeded some quot nope, exit	:a?		
	CF DI D1 D1 BF D1 50 D1	00BA 0 00BA 0 00BE 0 00C0 0 00C6 B 00C8	232 233 234 235 236 237 238 239 240 241 242 243 244 100\$:	PUSHL	QUIT_PC #1 #REMS_A RO #4,G^LI		•	signal error			
50 0309°	CF D	0 00CF 0 00CF 4 00D4 00D5	242 243 244 100\$:	MOVL	RETSTAT	US,RO	• • •	Get saved status Exit program			

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RTPAD V04-000		- REMOTE T	ERMINAL PROGRAM	L 15 ETC.	16-SEP-1984 5-SEP-1984	02:15:27	VAX/VMS Macro V04-00 ERTPAD.SRCJRTPAD.MAR;1	Page	17 (1)
	01B0°CF	00DB 00DB 00DB			R NODENAME, CON IDN, O, NODENAM #O NODENAME				
	01B0°CF	7F 00DB 00DF 00DF 00DF 00DF 00DF 00DF 00D		SPUSHADE IF PUSHL IFF PUSHAW ENDC	R NODENAME, CON IDN, O, NODENAM #O NODENAME	NTEXT=W NE			
	04C6'CF	7F 00E3 00E3 00E3 00E3 00E3 00E7		SPUSHADE IF PUSHL IFF PUSHAQ ENDC	R SYS\$NODE, CON IDN, 0, SYS\$NOD #0 SYS\$NODE	NTEXT=Q DE			
	00000000°GF 06	FB 00E7		CALLS	#6,G*SYS\$TRNL	.06			
	01 50	00EE 00EE 04 00F1 00F2	288 ONERROR BLBS RET 30000\$:	RET RO,30000	0\$; Exit	on error		
	00	00E7 00E7 00EE 00EE 00EE 04 00F2 00F2 00F2 00F2 00F2 00F2	289 290 STRNLOG 291 292 293	S - LOGNAM = RSLLEN = RSLBUF = .GLOBL	= RTPAD_LOGNAM = RTLOG_DESC, = RTLOG_DESC SYS\$TRNLOG #0 R O, CONTEXT=B	i tran	slate ''RTPAD\$LOG''		
		00F4 00F4		a A T	R O, CONTEXT=B				
	00	00F 6		PUSHL .IFF PUSHAB .ENDC	10N,0,0 #0				
	00	00F6 00F6 00F6 00F6 00F6 00F8 00F8		PUSHL IFF	R 0,CONTEXT=B IDN,0,0 #0 0				
	02BA°CF	00F8 00F8 00F8 00F8 00F8 00F8 00F8		SPUSHADE IF PUSHL IFF	R RTLOG_DESC.C IDN.O.RTLOG_D #0 RTLOG_DESC	CONTEXT=Q			
		00FC 00FC 00FC		\$PUSHADE	R RTLOG_DESC.	CONTEXT=W			

RTPAD V04-000		- REMOTE	TERMINAL PROGR NITIALIZATION O	AM F LINK,	M 15 ETC.	16-SEP-1984 5-SEP-1984	02:15:27 03:15:47	VAX/VMS Macro VO4-00 [RTPAD.SRC]RTPAD.MAR; 1	Page	18
	02BA°CF	00F 00F 00F 3F 00F 010	C C C C C C C C C C C C C C C C C C C		PUSHL IFF PUSHAW ENDC	IDN,O,RTLOG_E #0 RTLOG_DESC	DESC			
	02D2'CF	010 010 010 010 010 7F 010 010	000000000000000000000000000000000000000			OR RTPAD_LOGNAP IDN.O.RTPAD_L #0 RTPAD_LOGNAM	M.CONTEXT: LOGNAM	=Q		
	00000000°GF 06	FB 010	4		CALLS	#6,G*SYS\$TRNL	_06			
	0000°8F 50 1E 1B 50	B1 010 13 011 E9 011	B 294 0 295 2 296	CMPW BEQL BLBC	RO,#SS\$ 5\$ RO,5\$	_NOTRAN	; conf	tinue if no definition error		
		011	5 298 5 298	trans	late hex	byte string i	to binary	value		
	0286°CF 02C2°CF 02BA°CF 00000000°GF 04 50 0286°CF	DF 011 9F 011 3C 011 FB 012 E8 012 D4 012	8 294 295 296 297 298 299 301 302 303 304 305 307 308 308 309	PUSHAL PUSHAB MOVZWL CALLS BLBS CLRL	RTLOG F RTLOG C RTLOG C #3,G^[] RO.5\$ RTLOG F	BUF DESC,-(SP) IB\$CVT_HTB	; go 1	ing		
		013 013 013 013 013 013 013 013 013 013	0130 0130 0130 0130 0130			= TTYDESC, - = DVILIST SYS\$GETDVI SH 0, WO 0 1, <0>, <0>	; Get ; of	the device characteristics the translated SYS\$INPUT		
	0000 7E	00001 013 7C 013 013 013 013 013	000000000000000000000000000000000000000		.ENDC IF NE CLRQ IFF \$PUSHAD PUSHL .ENDC	\$\$T1 -(SP) OR O,CONTEXT=Q #0				
	00	013 013 013 013 013 013	2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		SPUSHAD IF PUSHL IFF PUSHAL ENDC	OR 0 1DN,0,0 #0				
	00	013 013 013 013 013	4		SPUSHAD .IF PUSHL .IFF	OR O.CONTEXT=Q IDN,O,O				

RV

RTPAD V04-000		- REMOTE 1	TERMINAL PROGRAM ITIALIZATION OF LINK,	N 15 ETC.	16-SEP-1984 5-SEP-1984	02:15:27 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1	Page	19 (1)
		0136 0136		PUSHAQ .ENDC	0				
	055E*CF	0136 0136 0136 0136 0136 013A		SPUSHAD IF PUSHL IFF PUSHAL ENDC	DR DVILIST . IDN, O, DVILIST #0 DVILIST				
	04D6°CF	013A 013A 013A 013A 013A 013E		SPUSHAD IF PUSHL IFF PUSHAQ ENDC	OR TTYDESC, CONT IDN, 0, TTYDESC #0 TTYDESC	EXT=Q			
	7E 00 00000000°GF 08	3C 013E DD 0141 FB 0143		MOVZWL PUSHL CALLS	#0,-(SP) #0 #8,G^SYS\$GETD	VI			
	01 50	FB 0143 014A 014A E8 014A 04 014D 014E	310 ONERROI BLBS RET 30001\$:	RET RO,3000	018	; Die	if any error		
	00	04 014D 014E 014E 014E 014E 014E 014E 014E 014E	311 312 SGETDEN	S -	= TTYDESC,- = TERMCHAR SYS\$GETDEV OR O,CONTEXT=Q IDN,0,0	; RSX,	ETC. WANTS THIS		
	00	0150 0150 0150 0152 0152 0152		SPUSHAD . IF PUSHL . IFF PUSHAW . ENDC	OR O, CONTEXT=W IDN, 0, 0 #0				
	0084° ÇF	7F 0152 0152 0152 0152 0152 0156		SPUSHAD IF PUSHL IFF PUSHAQ ENDC	OR TERMCHAR, CON IDN, O, TERMCHA #0 TERMCHAR	TEXT=Q R			
	00	0156 0156 0156 0156 0158 0158		SPUSHAD IF PUSHL IFF PUSHAW	OR O, CONTEXT=WIDN, 0, 0				

		- REM	MOTE TERMINAL PROG - INITIALIZATION	RAM OF LINK,	B 16 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 Page 20 ETC. 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1 (1)
			0158		.ENDC
040	6'CF	7F	0158 0158 0158 0158 0158 0158		SPUSHADR TTYDESC, CONTEXT=Q .IF IDN, O, TTYDESC PUSHL #0 .IFF PUSHAQ TTYDESC
00000000165	05	0.1	015C 015C		.ENDC
0000000°GF	05	FB	015C 0163 0163 315 0163	ONERDOR	CALLS #5,G^SYS\$GETDEV
0	1 50	E8 04	0163 0166 0167 0167	ONERROR BLBS RET 30002\$:	RO,30002\$
0060°CF 005 0061°CF 005 0062°CF 005	4'CF 8'CF C'CF	90 90 B0	0167 316 0167 317 016E 318 0175 319	MOVB MOVB MOVW	DEVCLASS TEMP.DEVCLASS ; Pack the data correctly DEVTYPE TEMP.DEVTYPE DEVBUFSIZ TEMP.DEVBUFSIZ
00°8F 006	0°CF	91 13	017C 320 017C 321	CMPB BEQL	DEVCLASS, #DC\$_TERM ; Is it a terminal? 10\$; Yes
	00		017C 320 017C 321 0182 322 0184 323 0184 324 0184 0184	\$PUTMSG	S - ; Output an error message MSGVEC = NOTTERM ; saying SYS\$COMMAND not a terminal GLOBL SYS\$PUTMSG
			0186 0186		PUSHL #0 \$PUSHADR 0.CONTEXT=Q .IF IDN,0.0
	00	DD	0186 0188 0188 0188 0188		PUSHL WO IFF PUSHAQ O .ENDC
	00	DD	0188 0188 0188 018A 018A		SPUSHADR 0 .IF IDN.0.0 PUSHL #0 .IFF PUSHAL 0 .ENDC
011	C'CF	DF	018A 018A 018A 018A 018A 018A		SPUSHADR NOTTERM .IF IDN.O.NOTTERM PUSHL #0 .IFF PUSHAL NOTTERM .ENDC
00000000°GF	04	FB	018E 018E 0195		CALLS #4,G*SYS\$PUTMSG
		04		RET	
			0196 327 0196 328 0196 329	Call	RTL routine to assign channel and associate mailbox to terminal
015	8'CF	3F	0196 330 10\$: 0196 331	PUSHAW	TERMMBXCHAN ; Arg #5 is the terminal mailbox chan

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	- REMOTE	TERMINAL P NITIALIZATI	C 16 ROGRAM ON OF LINK, ETC. 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 Page 5-SEP-1984 03:15:47 [RTPAD.SRCJRTPAD.MAR;1
014C'CF 0764'CF 0764'CF 04D6'CF 00000000'GF 05	3F 019 DF 019 DF 01A 7F 01A 6B 01B 68 01B 04 01B	6 335 A 336	PUSHAW READCHAN PUSHAL MAXMSGSIZ PUSHAL MAXMSGSIZ PUSHAQ TTYDESC CALLS W5, G^LIB\$ASN_WTH_MBX ONERROR RET BLBS R0,30003\$ RET 30003\$: Arg #4 is the terminal input channel Arg #3 is the message buffer quota Arg #2 is the maximum message size Arg #1 is the terminal device name Assign a channel w/ a mailbox Die if any error
00000	01B 01B	5	Assign a terminal write channel SASSIGN_S - ; Assign a channel DEVNAM = TTYDESC, - ; to the terminal device CHAN = WRITECHAN ; for terminal output GLOBL SYSSASSIGN SASNPUSH 0, W0 SST1 = 0 .IF IDN, <0>, <0> .IF IDN, <%0>, <%0> .IF IDN, <%0>, <%0> .ST1 = 1 .ENDC .ENDC
00000 00000 7E	01B 01B		ENDC ENDC IF NE \$\$T1 CLRQ -(SP) IFF \$PUSHADR O, CONTEXT=Q PUSHL #0 ENDC
0150°C7	3F 018 018 018 018 018 018 018		SPUSHADR WRITECHAN, CONTEXT=W .IF IDN, O, WRITECHAN PUSHL #0 .IFF PUSHAW WRITECHAN .ENDC SPUSHADR TTYDESC, CONTEXT=Q .IF IDN, O, TTYDESC PUSHL #0
04D6'CF	7F 01BE 01BE 01BE		PUSHAQ TTYDESC .ENDC
00000000°GF 04	FB 018		CALLS #4,G^SYS\$ASSIGN
01 50	01C0 01C0 E8 01C0 04 01C0	5	ONERROR RET ; Die if any error BLBS RO,30004\$ RET 30004\$:
	01 C/ 01 C/ 01 C/ 01 C/ 01 C/ 01 C/	345 346 347 348	See if SYS\$INPUT is a file \$OPEN FAB = SYSINFAB OPEN, SYSINFAB, OPEN, SYSINFAB,

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300058:

BBS

INCB

.GLOBL

CALLG

#DEV\$V_TRM,-SYSINF AB+FAB\$L_DEV,20\$

INDFLAG

SCONNECT RAB = SYSINRAB

SRMSCALL

SYS\$CONNECT B <SYSINRAB>

(AP) GASYSSCONNECT

Branch if terminal

CONNECT, SYSINRAB,,

Indicate indirect file

Connect to input stream

01D9 01D9

0109

01DF

01E3 01E7

01E7

EO

96

00000000'8F 15 025C'CF

0280 'CF

RTPAD V04-000		- RE	MOTE TERMINAL PR - INITIALIZATIO	E 16 OGRAM 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 OF LINK, ETC. 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR	Page 23
			01E7 01E7 01E7 01E7 01E7	\$\$.TMP=0 .IF NB <> \$\$.TMP=1 .ENDC .IF NB <> \$\$.TMP=1 .ENDC .IF NE \$\$.TMP	,
			01E7 01E7 01E7 01E7 01E7	.ERROR ; SYSINRAB= parameter missi .ENDC .ENDC	ng;
	00	0000001	01E7 01E7 01E7 01E7	S\$.TMP1=1 .IF NB <> PUSHAL \$\$.TMP1=3	
			01E7 01E7 01E7 01E7 01E7	.ENDC .IF NB <> PUSHAL .IF EQ <\$\$.TMP1-1> \$\$.TMP1=2 .ENDC .IFF .IF EQ <\$\$.TMP1-3>	
	FF	FFFFFE	01E7 01E7 01E7 01E7 01E7	IFF IF EQ <\$\$.TMP1-3> PUSHL #0 .ENDC .ENDC .NTYPE \$\$.TMP2.SYSINRAB	
		00000CF 0000070	01E7 01E7 01E7 01E7	PUSHL SYSINRAB	
	00	00000B0	01E7 01E7 01E7	.IF EQ <<\$\$.TMP2&^XF0>-^X10> PUSHL SYSINRAB	
	0260'0	F DF	01E7 01E7 01EB 01EB	.IFF PUSHAL SYSINRAB .ENDC .ENDC CALLS #\$\$.TMP1,G^SYS\$CONNECT .ENDC	
	00000000°GF 0)1 FB	01EB 01F2	CALLS #\$\$.TMP1,G^SYS\$CONNECT .ENDC	
	01 5	50 E8 04	01F2 01F2 01F2 01F2 01F5 01F6	ONERROR RET BLBS RO,30006\$ RET 30006\$:	
	0	08 11	01F6 01F6 01F6 355 01F8 356 01F8 357 20\$:	BRB 30\$	
			01F8 357 20\$:	\$CLOSE FAB = SYSINFAB : Won't use it \$RMSCALL CLOSE, SYSINFAB,	
			01F8 01F8 01F8 01F8 01F8 01F8	\$RMSCALL CLOSE,SYSINFAB,, .GLOBL SYSSCLOSE .IF B <sysinfab> CALLG (AP),G*SYSSCLOSE \$\$.TMP=C .IF NB <> \$\$.TMP=1 .ENDC</sysinfab>	

RTPAD V04-000		- REMOTE	TERMINAL PROGRAM	INK, ET	F 16 16-SEP-1984 0 5-SEP-1984 0	2:15	5:27 VAX/VMS N 5:47 ERTPAD.SR	Macro VO4-00 RCJRTPAD.MAR;1	Page	24 (1)
		01F8	šš	F NP=1	8 <>					
		01F8 01F8 01F8	, E	RROR	E \$\$.TMP		SYSINFAB= para	ameter missing;		
	0000	01F8 01F8 01F8 01F8	. I	.TMP1=1	B <sysinfab></sysinfab>					
		01F8 01F8	PU \$\$	SHAL TMP1=3						
		01F8	PU	SHAL	B <> Q <\$\$.TMP1-1>					
		01F8	\$\$.E	TMP1=2 NDC FF	W 433. IMP1-17					
	FFFF	01F8		F E	Q <\$\$.TMP1-3>					
	0000	01F8 01F8 00CF 01F8 0075 01F8 01F8	. N	SHL ANDC NDC TYPE SF ESHL S	\$.TMP2,SYSINFAB Q <<\$\$.TMP2&^XF0>-^X5 YSINFAB	0>				
	0000	01F8 00B0 01F8 01F8	:1	ff f E	Q <<\$\$.TMP2&^XF0>-^X1	0>				
	021C°CF	DF 01F8	PU	FF Shal S	YSINFAB					
	00000000°GF 01	FB 01F0 0203 0203 0203	ČA .E	NDC NDC LLS #	\$\$.TMP1,G^SYS\$CLOSE			4		
		0203 0203 0203 0203	358 30\$: 359 360	Check f	or /LOG [=filespec]					
	0167°CF	0203 0203 75 0203	361 362				LOG Label			
	00000000 GF 01 21 50	7F 0203 FB 0207 E9 020E	364 CA 365 BL	SHAQ L LLS # BC R	OG_DESC 1, G^CLI\$PRESENT 0, 62\$	•	LOG label See if present branch if not	present		
	01A0°CF 0167°CF 00000000°GF 02 0E 50	7F 0211 7F 0215 FB 0219 E9 0220	368 PU	SHAQ L SHAQ L LLS # BC R	OG_FILE_DESC OG_DESC 2.G^CLI\$GET_VALUE 0.61\$		return buffer LOG label get value continue if no	error		
	00000000 GF 01 01 50	7F 0223 FB 0227 E8 022E 04 0231	371 372 PU 373 CA 374 BL 375 618: RE	SHAQ L	OG_FILE_DESC 1,G^CTERMSOPEN_LOG 0,62\$		use this file Open log file Branch if ok exit on error			

RTPAD V04-000	- R INI	EMOTE TERMINAL F	PROGRAM 16-SEP- ION OF LINK, ETC. 5-SEP-	-1984 02:15:27 VAX/VMS Macro V04-00 -1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1	Page	25
		0232 378	Get node name from CL	I		
	98'CF 7F 70'CF 7F 02 FB 01 50 EB 04	0241 383	PUSHAQ NODE NAME_DESC PUSHAQ NODEDESC CALLS #2, G^CLI\$GET_V ONERROR RET BLBS RO,30007\$ RET 30007\$:	Return buffer Parameter name Get node name Exit on error		
		0245 384 0245 385 0245 386 0245 387	Check for /DTE			
00000000 °GF	72'CF 7F 01 FB 29 50 E9	0245 384 0245 385 0245 386 0245 388 0245 389 0245 390 0250 391 0253 392 0253 393 0253 395 0253 396 0253 396 0253 396 0253 397 0255 399 0267 400 0267 401 0260 403 0277 404	PUSHAQ DTE_DESC CALLS #1, G^CLISPRESE BLBC RO, NOT_DTE	DTE label See if present branch if not present		
		0253 394 0253 395	Kludge NODENAME so CR	,Lf happen on exit		
50 010 50 010 0180°CF 60 000	BO'CF 3C B4'CF CO 02 AO 0A 8F BO	0253 396 0258 397 0250 398 0262 399 0267 400	MUVZWL NODENAME,RO ADDL2 NODENAME+4,RO ADDW #2,NODENAME MOVW #^XODOA,(RO)	<pre>; length ; plus address ; add to length ; CR,LF</pre>		
7E 01 00000000°GF	50'CF 3C 98'CF 7F 02 FB	0267 401 026C 402 0270 403 0277 404	MOVZWL WRITECHAN, - (SP) PUSHAQ NODE NAME DESC CALLS #2, G*TERM\$EMULA* ONERROR RET	command channel value of P1 TE; call terminal emulation code exit immediately on error		
	01 50 E8 04	0277	BLBS R0,3G008\$ RET 30008\$:			
	05	027C 406	RSB _DTE:	; otherwise, return to hiber co	ode	
		027C 409 027C 410	Assign a channel for	^C and ^Y handling		
	00000000 00000001 7E 7C	027C 027C 027C 027C 027C 027C 027C 027C	SASSIGN_S - DEVNAM = TTYDES(CHAN = CNTRLCHAN GLOBL SYSSASS) SASNPUSH 0, MO SST1 = 0 . IF IDN, <0>, <0> . IF IDN, <0>, < MO . IF IDN < MO>, < MO . IF NE SST1 CLRQ -(SP) . IFF SPUSHADR 0, CONTEPUSHL #0			

	- REMOTE TERMINAL PROGRAM INIT - INITIALIZATION OF LINK	H 16 16-SEP-1984 5-SEP-1984	02:15:27 VAX/VMS Macro V04-00 03:15:47 [RTPAD.SRC]RTPAD.MAR;1	Page 2
	027E	. ENDC		
0154°CF	027E 027E 027E 027E 027E 027E 0282	SPUSHADR CNTRLCHAN, CO. IF IDN, O, CNTRLCH PUSHL #0 . IFF PUSHAW CNTRLCHAN . ENDC	INTEXT=W	
04D6°CF	7F 0282 0282 0282 0282 0282	\$PUSHADR TTYDESC, CONT. IF IDN, 0, TTYDESC PUSHL #0 . IFF PUSHAQ TTYDESC . ENDC	EXT=Q	
00000000'GF 04	FB 0286	CALLS #4,6°SYS\$ASSI	GN	
01 50	028D 028D 414 ONERR E8 028D BLBS 04 0290 RET 0291 30009	OR RET RO,30009\$; Die if any error	·
	0291 415 0291 416	o through node name to r	emove trailing :'s	
52 0198 ° CF 52 52 0A 3A FF A342 09 F6 52 50 0000 ° 8F	7D 0291 420 MOVQ 3C 0296 421 MOVZW 13 0299 422 BEQL 91 029B 423 40\$: CMPB 12 02A0 424 BNEQ F5 02A2 425 SOBGT	50\$ -1(R3)[R2], #^A':' 60\$ R2, 40\$; Get node name length, address; and isolate its real length; No length??; A trailing colon?; Nope; Yep, remove it from count and logical endemons.	юр
0000°CF 52	04 02AA 427 RET 02AB 428 7D 02AB 429 60\$: MOVQ	R2. REMOTENODE	; and exit ; Save the node name descriptor	
	0280 431 0280 432 For	n the network connection		
0189°CF 0000°CF 01A8°CF 00000000°GF 03	02B0 434 7F 02B0 435 PUSHAR 7F 02B4 436 PUSHAR 7F 02B8 437 PUSHAR FB 02BC 438 CALLS 02C3 439 ONERR E8 02C3 BLBS 04 02C6 RET 02C7 30010	REMOTENODE CONNDESC #3, G^STR\$CONCAY OR RET R0,30010\$	Arg #3 is the right part (obj ty; Arg #2 is the left part (node na; Arg #1 is the resultant string; Go concatenate for connection st; Exit on error	pe) me) ring
58 01AC'CF 52 58 03'	C1 02C7 440 ADDL3 C0 02CD 441 ADDL 02D0 442 02D0 443 02D0 444 *** TEMPORA	R2, CONNDESC+4, R8 S^#OBJ_C_PREFIX, R8	: Address just beyond node name ; then offset to object number	
	02D0 445 *** TEMPORA	RY CODE TO DETECT /OLD Q	UALIFIER	

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00000000	015C'CF 'GF 01 05 50 3332 8F	7F FB E9 B0	02D4 02DB 02DE 02E3 02E3	451	65\$:	pushaq calls blbc movw	old_desc #1, g^cli\$present r0, 65\$ #^Å'23', (r8)	; *** TEMP ; *** TEMP; /NOOLD, go try 42 first ; *** TEMP; /OLD, change to 23 ; *** TEMP
	0208°CF	78	02E3 02E3 02E3	452 453 454 455	70\$:	i		requesting a logical link
0000000		FB E8 04	0287	456 457 458	703:	PUSHAQ CALLS ONERROR BLBS RET 300118:	PSTHRU_MSG #1, G^STR\$FREE1_DX RET RO,30011\$; Address the PSTHRU message desc ; and free up anything in it ; Exit on error
00000000	0764 ° CF 0421 ° CF 0200 ° CF 01F8 ° CF 0148 ° CF 0144 ° CF 01A8 ° CF ° GF 07 13 50	3F 9F 7F 7F 3F 7F FB E8	02F6 02FA 02FE 0302 0306 030A 030E 0315	459 460 461 462 463 465 465 465 465		PUSHAW PUSHAQ PUSHAQ PUSHAW PUSHAW PUSHAW PUSHAQ CALLS BLBS	MAXMSGSIZ 180\$ FINALACS FINALPATH MAILCHAN LINKCHAN CONNDESC #7, G^UNS\$NET_CONNECT R0, 80\$	Ary #7 is the maximum message size Arg #6 is the message call routine Arg #5 is the final ACS desc Arg #4 is the final path desc Arg #3 is the link mailbox channel Arg #2 is the link channel Arg #1 is the 'device' desc Do the remote node connection Continue if success completion
			0318 0318	69 70 71		If ob	ject type 42 failed then	try object type 23
68 3332	51 68 33332 8F 8F 51 BC 00E0	B0 B0 B1 12 30	031B 0320 0325 0327 032A	72 73 74 75 76 77		MOVW MOVW CMPW BNEQ BSBW RET	(R8), R1 #^A'23', (R8) R1, #^A'23' 70\$ 170\$; Save the object type we just tried ; then replace it object type 23 ; Did we just try object type 23? ; Nope, so go try object type 23 ; Go output any saved PSTHRU message(s) ; then exit with the error
	OODC	30	032B 032E 032E 032E 032E 032E	81 82 83 84 85	80\$:	BSBW Read 1	170\$ initial message from HOS message in TSA terminolo	; Go output any saved PSTHRU message(s) T process, this is the gy-
55	0324°CF	9E 0000	032E 032E 0333 0333 0333 0333 0333 0333	86 87 88 89 90 91		MOVAB \$QIOW_S	FIRSTMSG, R5 CHAN = LINKCHAN, - FUNC = #10\$ READVBLK, - 10SB = AST\$Q IOSB(R5), - P1 = AST\$T BUF(R5), - P2 = #MAXMSG .GLOBL SYS\$QIOW \$PUSHTWO #0,#0 \$\$T1 = 0 .IF IDN,<#0>,<#0>	; Address of area to receive message ; Read CONFIG message ; on the link channel ; reading obviously -; use an IOSB ; into this buffer ; which is this long

RTPAD
V04-000

- RE	MOTE TERMINAL PROGRAM - INITIALIZATION OF LINK,	J 16 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1	
00000001 00000001 7E 7C	0333 0333 0333 0333 0335 0335 0335	IF IDN, < #0>, < #0> \$\$T1 = 1 .ENDC .ENDC .IF NE \$\$T1 CLRQ -(SP) .IFF PUSHL #0 PUSHL #0 .ENDC	
000000001 00000001 7E 7C	0335 0335 0335 0335 0335 0335 0335 0337 0337	\$PUSHTWO #0,#0 \$\$T1 = 0 .IF	
0000041A 8F DD 26 A5 DF	0337 0337 0330 0330 0330 0330 0340	PUSHL #MAXMSG \$PUSHADR AST\$T_BUF(R5) .IF IDN,0,AST\$T_BUF(R5) PUSHL #0 .IFF PUSHAL AST\$T_BUF(R5) .ENDC	
000000001 00000001 7E 7C	0340 0340 0340 0340 0340 0340 0340 0340	\$QIOPUSH #0,0 \$\$f1 = 0 .IF	
04 A5 7F	0342 0342 0342 0342 0345 0345	SPUSHADR ASTSQ_IOSB(R5), CONTEXT=Q .IF IDN,O,ASTSQ_IOSB(R5) PUSHL #0 .IFF PUSHAQ ASTSQ_IOSB(R5) .ENDC MOVZWL #IOS_READVBLK,-(SP)	
7E 7E 31 3C 3C 00 DD	0348 0340	MOVZWL #10\$ READVBLK, -(SP) MOVZWL LINKCHAN, -(SP) PUSHL #0	

			- RE	MOTE TE	RMINA IALIZ	AL PROGR	AM F LINK, I	K 16 ETC.	16-SEP-1984 5-SEP-1984	02:1 03:1	5:27 5:47	VAX/VMS Macro VO4-00 [RTPAD.SRC]RTPAD.MAR; 1	Page	29
0000	99.0000	00	FB	034F				CALLS	#12,6^\$Y\$\$QI	DW				1
	17	50	E8 DD	0356 0359 0358 0358	494 495 496 497	100\$:	BLBS PUSHL SPUTMSG	MSGVEC :	= DECNETERR		Save	ch if ok error status ut an error message ing some sort of link error		4
		00	DD	035B 035B				GLOBL PUSHL SPUSHADI	SYSSPUTMSG #0 R.O.CONTEXT=0					1
		00	DD	035D 035F 035F 035F				PUSHL IFF PUSHAQ ENDC	1DN,0,0 #0					•
		00	DD	035F 035F 035F 0361 0361				SPUSHADI IF PUSHL IFF PUSHAL ENDC	0 15N,0,0 40					
	0110	°CF	DF	0361 0361 0361 0361 0361 0365				SPUSHADE IF PUSHL IFF PUSHAL ENDC	DECNETERR IDN,O,DECNETE #0 DECNETERR	ERR				
0000	0000'GF	04	FB	0365				CALLS	#4,G*SYS\$PUT	45G				,
		50	8ED0 04	036C 036C 036F	498		POPL RET	RO		:	Rest	ore the error status die		
	50 04 E2	A5 50	3C E9	0370 0370 0374 0377	501 502 503	110\$:	MOVZWL BLBC	AST\$0 10 RO, 1001)SB(R5), R0	•	Get Go d	the I/O completion code ie unless success completion		
				0377	504	•		***** 51	tart temp old	RSTS	/E **	***		1
50	06 A5 27 A5	01 50 10	A3 B1 12 D0 D0 00392	0377 0370 0380 0382 038A	506 507 508	110\$:	SUBW3 CMPW BNEQ	#1, ASTS RO, ASTS FOO_RSTS	Q_IOSB+2(R5); T_BUF+1(R5); T AST\$T_BUF(R5)	, R0				A manufacture of the
26 A5 2A A5	00000101	8F 000	00392	11492	509 510 511	FOO_RST	MOVL MOVL S_1 = .	#138!1 #130316	ASTST_BUF(R5)) +4(R5))			,
				0392	213	:		***** er	nd temp old RS	STS/E	****	•		Þ.
	01 26 01 27	A5 06 A5 12	91 12 91 18	0392 0392 0392 0392 0396 0398 0390	515 516 517 518 519 520	1308:	CMPB BNEQ CMPB BGEQ \$PUTMSG	150% AST\$T_BU	JF (R5), #1 JF+1 (R5), #1 = NOTVMS		A COI Yep Outpo	NFIG message for V1 or higher ut an error message	?	1
		00	DD	039C 039E 039E 039E 039E 03A0	260			PUSHL	SYSSPUTMSG #0 0, CONTEXT=Q	;	say	ing protocol not supported		à

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			- RE	MOTE TE	RMINA IALIZ	L PROGR	AM F LINK,	L 16 ETC.	16-SEP-1984 0 5-SEP-1984 0	2:15:27 3:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1	Page	30
		00	DD	03A0 03A2 03A2 03A2				.IF PUSHL .IFF PUSHAQ .ENDC	IDN,0,0 #0				
		00	DD	03A2 03A2 03A2 03A2 03A4 03A4				SPUSHAD .IF PUSHL .IFF PUSHAL .ENDC	R 0 1DN,0,0 #0				
	0138'	CF	DF	03A4 03A4 03A4 03A4 03A4 03A8				SPUSHAD IF PUSHL IFF PUSHAL ENDC	R NCTVMS IDN,0,NOTVMS #0 NOTVMS				
00000000	GF	04	FB	03A8 03A8				CALLS	#4,G*SYS\$PUTMS	G			
			04	03AF	521		RET						
0319°CF 031A°CF	28	AS AS	90 80	0380 0380 0380 0380 0380 0380 0380	529	140\$:	Use to of the	AST\$T_B	ol modules to c	all. ECO: Sa	eturned to determine which eve eco level save host operating system		
52	FFC'	CF	9E	03BC 03BC	530 531	1500.	MOVAB	PROTOTB	L-4, R2	; Get	(biased) pointer to protoco	ls	
000000000	52 BF 20	04 52 D1 A5 EE	CO D1 1E B3 13	03C1 03C4 03CB 03CD 03D1 03D3	532 533 534 535 536 537 538 539 540	150\$:	ADDL CMPL BGEQU BITW BEQL	#4, R2 R2, #ENI 130\$ AST\$T_BI 150\$	DPROTO UF+6(R5),(R2)+	; Are ; Yep. : Not	ex over address to bit number we out of protocols? protocol not supported yet, does the bit match? match, loop for next protocol		
				0303	539		R2 is	now add	ress of protoco	l module	routine		
00000000	031C° 031C° GF	CF CF 02	DF DF FB	03D3 03D3 03D7 03DB	541		PUSHAL PUSHAL CALLS	OLDCTRL OLDCTRL #2, G^L	IB\$DISABLE_CTRL	: Arg	<pre>#2 is returned out-of-band i #1 is out-of-band's to disal the currently enabled ones</pre>	oits	
00000000	031C° 031C° GF	CF CF 02	DF DF FB	03E2 03E6 03EA	543 5445 5446 5447 5490		PUSHAL PUSHAL CALLS	OLDCTRL OLDCTRL #2, G^L	IB\$DISABLE_CTRL	; Arg	#2 is returned out-of-band #1 is out-of-band's to disamallisable out-of-bound ASTs	oits	
000000000	GF	01 01	DD FB	03EA 03F1 03F1 03F1 03F3 03FA	549		SSETRUM	S - WATFLG: GLOBL PUSHL CALLS	= #1 SYS\$SETRUM #1 #1,G^SYS\$SETRU	; off	resource wait mode so we never will hang		
	8F	50	B1	03FA 03FA	551		CMPW	RO. #SS	S_WASCLR	· Was	it already off?		

RTPAD V04-000

			- RE	MOTE T	RMIN/	AL PROG	RAM OF LINK,	M 16 16-SEP-1984 02 5-SEP-1984 03	3:1	5:27 5:47	VAX/VMS Macro VO4-00 [RTPAD.SRC]RTPAD.MAR; 1	Pag
	0320	°CF	13 06	03FF 0401 0405	552 553 554		BEUL	160\$ OLDSETRUM	:	Nope Yep	e, we'll turn it back on at , we'll keep it off at exit	exit
				0405 0405 0405	555 556 557 558	160\$:	Call	the appropriate protocol	l m	odule	P	
00	82	00	FB 05	0405 0409 040A	559 560	1000.	CALLS	#0, a(R2)	:	Go s	start up selected protocol	
00000000	0208 0208 0208 GF 50	10	B5 13 DD 7F FB D0 05	040A 040E 0410 0412 0416 041D	560 561 563 564 566 567	170\$:	TSTW BEQL PUSHL PUSHAQ CALLS MOVL	PSTHRU_MSG 1758 RO PSTHRU_MSG #1, G^EIB\$PUT_OUTPUT (SP)+, RO		Nope Yep Addi and Resi	, save the status code ress the saved message(s) d go output them tore the status code	
				0420 0421	568 569	175\$:	RSB		;	Exit		
06 AC	01FE	8F	0000 B0	0421 0423 0429 0429	568 569 570 571 572 573 574	180\$:	.WORD MOVW \$PUTMSG	MSGVEC = (AP), - ACTRIN = 1908		W11	sage call back routine lace facility code with ours \$PUTMSG th the supplied message vect lling this action routine	or
		00	DD	0429 0428				GLOBL SYS\$PUTMSG PUSHL #0 SPUSHADR O,CONTEXT=Q				
		00	DD	042B 042B 042D 042D 042D				IF IDN,0,0 PUSHL #0 IFF PUSHAQ 0 ENDC				
				042D 042D 042D 042D 042D				SPUSHADR 1908 .IF IDN,0,1908 PUSHL #0 .IFF				
	043B	CF	DF	0431 0431				PUSHAL 1908 ENDC				
		60	DF	0431 0431 0431 0431 0431				SPUSHADR (AP) IF IDN,0,(AP) PUSHL #0 IFF PUSHAL (AP) ENDC				
00000000	GF	04	FB	0433				CALLS #4,6°SYS\$PUTMSG	;			
			04	043A 043A	575		RET			Retu	ırn	
	0208	'CF OF	0000 B5	043B 043B 043D	575 576 577 578	190\$:	.WORD	PSTHRU_MSG	•	Anyt	on routine for \$PUTMSG thing saved yet?	
00000000		CF CF OZ	0000 85 13 7F 7F FB 7F	043D 0441 0443 0447 044B 0452	579 580 581 582 583	200\$:	BEQL PUSHAQ PUSHAQ CALLS PUSHAQ	2008 PSTHRU_CRLF PSTHRU_MSG #2. G^STRSAPPEND a4(AP)		Nope Arg Arg Go s Arg	#2 is the string to append #1 is the string to append ave message by appending #2 is the string to append	to

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RTPAD	
V04-00	0
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	- RE	MOTE TERMIN	IAL PROGR	AM F LINK,	B ETC.	1 16-S 5-S	EP-1984 EP-1984	02:15 03:15	:27 YAX/VMS Mac :47 [RTPAD.SRC]	ro VO4-00 RTPAD.MAR;1	Page	32 (1)
00000000 GF 02 50	7F FB D4 04	0455 584 0459 585 0460 586 0462 587 0463 588 0463 588 0463 597 0465 597 0465 597		PUSHAQ CALLS CLRL RET	PSTI #2, RO	HRU MSG G^\$TR\$APP	END		Arg #1 is the st Go save message Say we don't wan then return	ring to append to by appending t any output now	0	
	0000	0463 588 0463 589 0463 590	CTERM_R	T: .WORD	*M<2	•		:	CTERM protocol i No register(s) t	nitialization o save		
02B2°CF	96	0465 59		INCB	CTER	M_FLAG		;	Indicate CTERM p	rotocol		
50 04E9°CF 031A°CF 07 0A	81	0469 594 046E 595 0473 596 0475 597		moveq (MPW BNEQ	10\$	omsg1.RO HOST_OPSYS			assume not vax t Talking to VMS? nope	o vax		
50 0522°CF		0477 598 047A 599		BISW	CTER	SSM_VAXHOS RM_FLAG pmsg2,R0	,-		Set flag vax to vax			
11 02B6'CF 50 01	DD	0477 598 047A 599 047F 601 0481 602 0485 603 0487 604 0489 605 048F 606	10\$:	BBC pushl pushl	RTLO RO #1	OG\$V_BANN OG_FLÄGS,2	0\$.3	Branch if not re			
01FE1130'8F 00000000'GF 03	DD FB	0489 605 048F 606		pushl	# <s!< td=""><td>ir\$_text!s }^līb\$sign</td><td>ts\$k_info al</td><td>o>!<r< td=""><td>em\$_facility@16></td><td>•</td><td></td><td></td></r<></td></s!<>	ir\$_text!s }^līb\$sign	ts\$k_info al	o>! <r< td=""><td>em\$_facility@16></td><td>•</td><td></td><td></td></r<>	em\$_facility@16>	•		
0000°CF 00	FB 04	0496 607 0496 608 049B 609	20\$:	CALLS	#0,	VMSRT			Go join the VMSR	T protocol		

Page

```
C 1
16-SEP-1984 02:15:27 VAX/VMS Macro V04-00
5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1
                          - REMOTE TERMINAL PROGRAM
                          RECORD QUIT - snapshot QUIT info
                                           611 .SBTTL RECORD_QUIT - snapshot QUIT info
612
613 RECORD_QUIT::
614
615 MOVL (SP),QUIT_PC
616
617 $GETJPIW_S -
618
619 PIDADR = LOCAL_PID.-
620
620 LIMIST = GETJPT_TIMIST.-
                                 049C
049C
049C
049C
049C
     030D ° CF
                           DO
                    6E
                                                                                                          : save caller PC
                                                                         PIDADR = LOCAL PID. -
ITMLST = GETJPI_ITMLST. -
IOSB = JPI_IOSB
.GLOBL SYSSGETJPIW
$210PUSH #0.0
                                  04A1
                   00000000
                                  04A1
                                                                          $$T1 = 0
                                                                          . IF
                                                                                     IDN, <#0>, <#0>
                                                                         $$T1 = 1
                                                                                     IDN, <0>, <0>
                   00000001
                                  04A1
                                  04A1
                                                                          .ENDC
                                                                          .ENDC
                  00000001
7E 7C
                                                                          . IF
                                                                                     NE $$T1
-(SP)
                                  04A1
                                                                          CLRQ
                                                                         . IFF
PUSHL
                                                                         SPUSHADE 0
                                                                          .ENDC
                                                                         $PUSHADR JPI_IOSB, CONTEXT=Q.IF IDN, 0, JPI_IOSB
                                                                         PUSHL
                                                                          .IFF
             0004°CF
                           7F
                                                                         PUSHAQ JPI_IOSB
                                                                          ENDC
                                                                         $PUSHADR GETJPI_ITMLST
.IF IDN,O,GETJPI_ITMLST
                                                                         PUSHL
                                                                          . IFF
            000C CF
                                                                         PUSHAL GETJPI_ITMLST
                           DF
                                 04A7
                                  04AB
                                                                          .ENDC
                                  04AB
                                                                         $PUSHADR O, CONTEXT=Q
.IF IDN, 0, 0
                                  04AB
                                                                         IF IDM
                                  04AB
                    00
                           DD
                                 04AB
                                  04AD
                                                                          . IFF
                                  04AD
                                                                         PUSHAQ
                                  04AD
                                                                          .ENDC
                                  04AD
                                  04AD
                                                                         $PUSHADR LOCAL_PID
                                                                                    IDN, O, EOCAL PID
                                  04AD
                                                                          . IF
                                  04AD
                                                                         PUSHL
                                  04AD
                                                                          .IFF
                                                                         PUSHAL LOCAL PID
             0000'CF
                           DF
                                  04AD
                                  0481
                                                                          .ENDC
                                  0481
                                 04B1
04B3
                    05
                                                                         PUSHL
                                                                                     #7,G*SYS$GETJPIW
00000000 GF
                           FB
                                                                         CALLS
                                  04BA
```

RTF VO4

- REMOTE TERMINAL P READ ONLY DATA	ROGRAM E 1 16-SEP-1984 5-SEP-1984	02:15:27 VAX/VMS Macro V04-00 Page 35 03:15:47 [RTPAD.SRC]RTPAD.MAR;1 (3)
04C6 629 04C6 630 24 53 59 53 000004CE'010E0000' 04C6 631 SYS	.SBTTL READ ONLY DATA	
45 44 0404		
24 53 59 53 000004DE'010E0000' 04D6 632 TTY		
6F 6D 65 72 000004F1'010E0000' 04E9 634 inf 20 6C 61 6E 69 6D 72 65 74 20 04F7 45 54 43 20 67 6E 69 73 75 20 0503 20 6C 6F 63 6F 74 6F 72 70 20 050F 29 78 61 76 2D 6E 6F 051B	omsg1: .ascid /remote termi	nal is using (TERM protocol (non-vax)/ ; *** T
29 78 61 76 2D 6E 6F 051B 6F 6D 65 72 0000052A'010E0000' 0522 635 inf 20 6C 61 6E 69 6D 72 65 74 20 0530 45 54 43 20 67 6E 69 73 75 20 053C 20 6C 6F 63 6F 74 6F 72 70 20 0548 29 78 61 76 2D 6F 74 2D 78 61 0554	omsg2: .ascid /remote termi	nal is using (TERM protocol (vax-to-vax)/ ; ***
055E 636 055E 637 DVI	LIST: .WORD 4,DVI\$_DEVCLASS .ADDRESS DEVCLASS_TEMP,0	; Device class
00000000 00000058 056E 642	.WORD 4.DVI\$ DEVTYPE .ADDRESS DEVTYPE_TEMP,0	; Device type
00000000'00000054' 055E 638 00000000'00000054' 0562 639 056A 640 0006 0004 056A 641 00000000'00000058' 056E 642 0576 643 0008 0004 0576 644 00000000'0000005C' 057A 645 0582 646 0582 647 00000000'00000064' 0586 648 058E 649 001C 0004 058E 650 00000000'00000068' 0592 651 059A 652	.WORD 4.DVI\$_DEVBUFSIZ .ADDRESS DEVBUFSIZ_TEMP,0	; Device buffer size
000A 0004 0582 647 00000000'00000064' 0586 648	.WORD 4,DVI\$ DEVDEPEND DEVDEPEND, 0	; Device dependant data (1)
00000000'00000068' 0592 651	.WORD 4,DVI\$ DEVDEPEND2 .ADDRESS DEVDEPEND2,0	; Device dependant data (2)
0020 0010 059A 653 0000006C'00000070' 059E 654	.WORD 16,DVI\$ DEVNAM. ADDRESS DEVNAM,DEVNAMLEN	; Device name and length
0020 0010 059A 653 0000006C'00000070' 059E 654 05A6 655 000C 0004 05A6 656 00000000'00000080' 05AA 657 05B2 658 00000000 05B2 659 05B6 660	.WORD 4,DVI\$ UNIT .ADDRESS TERMUNIT,0	; Device unit number
00000000 05B2 658 05B2 659 05B6 660	.LONG 0	;END OF LIST

00000000 0054 690 DEVCLASS TFMP: LONG 0 00000000 0058 691 DEVTYPE TEMP: LONG 0 00000000 005C 692 DEVBUFSIZ TEMP: LONG 0 0060 693 0060 694 CHAR BLOCK:: 00000061 0060 695 DEVCLASS: BLKB 1 00000062 0061 696 DEVTYPE: BLKB 1

: VMS characteristics

00000062 00000064 0061 696 DEVBUFSIZ: .BLKW 80000008 698 DEVDEPEND: .BLKL 00000060 DEVDEPEND2: .BLKL 00000000 **DEVNAMLEN::** . LONG 00000080

03 DEVNAM:: .BLKB 16 04 05 TERMUNIT:: .LONG 0

707 TERMCHAR::

00000000

00000110

00000086 000000084

LONG DIBSK_LENGTH+16.18
S: .BLKB DIBSK_LENGTH+16

: Term characteristics for RSX, etc.

Message vectors for \$PUTMSG

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RTPAD V04-000	- READ	MOTE TERMIN WRITE DATA	AL PROGRAM	G 1	16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 Page : 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1
00000180'00000001	00000000'00000003	0128 719	EXITMSG:	. LONG	3,REMS_END,1,NODENAME
00000000	00000000.00000005	0128 719 0138 720 0138 721 0144 722 0144 723	NOTVMS:	.LONG	2,REM\$_NOPROT.0
		0144 724 0144 724 0144 725	Channels	assigned in	INIT and used by other modules
	00000000	0144 726 0144 727 0148 728	LINKCHAN::	.LONG	0 ; DECnet link channel
	00000000	0148 729 0146 730	MAILCHAN::	.LONG	O ; DECnet link mailbox channel
	00000000	014C 731 014C 732	RDWRTCHAN:: READCHAN::	.LONG	0 ; Terminal reads channel
	00000000	0150 734	WRITECHAN::	.LONG	0 ; Terminal writes channel
	00000000	0154 736	CNTRLCHAN::	.LONG	0 ; Terminal ^C and ^Y enables
	00000000	0154 736 0158 737 0158 738 015C 739	TERMMBXCHAN	:: .LONG	0 ; Terminal Unsolicited data mailbox channel

RTPAD VO4-000				RE	REMOTE TERM AD WRITE DA	INAL PROGRAM	н 1	16-SEP-1984 5-SEP-1984	02:15:27	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1	Page	38
					015C 7	41 : Cli interfac	e storage					
	44	40 4	F 0000	0164'010E000	0150 7	44 OLD_DESC:	.ASCID	/OLD/	; /OLD	qualifier		
	47	4F 4	C 0000	016F '010E000	0' 0167 7	46 LOG_DESC:	.ASCID	/LOG/	; /LOG	qualifier		
	45	54 4	4 0000	017A'010E000	0' 0172 7	48 DTE_DESC:	.ASCID	/DTE/	; /DTE	qualifier		
45	44	4F 4	E 0000	0185'010E000	017D 7	SÓ NODEDESC:	.ASCID	/NODE/	; name	of parameter		
					0189 7 0189 7 0189 7	53 Network name 54	s and des	criptors				
				0000000	7' 0189 7	55 56 OBJ_DESC: 57 58	.LONG	20 \$ -10 \$; Obje	ct type descriptor		
				22 3A 3	0191 7	60 10\$: 61 OBJ_C_PREFIX =	.ASCII	/::"/	FINA	L FORMAT: node_name::''nn='		
				22 3D 32 3	0194 7 0198 7	62 63 20 \$:	.ASCII	/42="/	; 42 i	et to object number s TSA, 23 is old remote te	rminal	
				0200000	0198 7 0198 7	65 NODE_NAME_DESC	.LONG	DSC\$K_CLASS_	Retu Da <ds(\$b_c< td=""><td>rned CLI node name paramet</td><td>er</td><td></td></ds(\$b_c<>	rned CLI node name paramet	er	
				0000000 0200000 0000000	01A0 7	67 68 LOG_FILE_DESC: 69 70	.LONG .LONG	DSCSK_CLASS_	Petu Da <dsc\$b_c< td=""><td>rned /LOG= file spec LASS*8></td><td></td><td></td></dsc\$b_c<>	rned /LOG= file spec LASS*8>		
				0200000	01A8 7 01A8 7 01A8 7	71 72 CONNDESC: 73 74 75	.LONG	DSC\$K_CLASS_	.Da <d\$c\$b_c< td=""><td>ork connection string LASS*8></td><td></td><td></td></d\$c\$b_c<>	ork connection string LASS*8>		
				0000004 000001B)' 01B0	76 NODENAME::	.LONG	20 \$- 10 \$; Tran	slation of SYS\$NODE held h	ere	
				000001F	01F8 7	78 79 10\$: 80 20\$:	.BLKB	64				
				0200000) 01F8 7	81 82 FINALPATH:: 83 84	.LONG	DSC\$K_CLASS_	pa <ps:fina Da<ps:sb_c< td=""><td>l path descriptor LASS*8></td><td></td><td></td></ps:sb_c<></ps:fina 	l path descriptor LASS*8>		
				0200000	0 01FC 7 0200 7 0200 7 0200 7 0204 7 0208 7 0208 7 0208 7	84 85 86 FINALACS:: 87 88 89 90 PSTHRU_MSG:	LONG	DSCSK_CLASS_	Da <dsc\$b_c< td=""><td></td><td></td><td></td></dsc\$b_c<>			
				0200000	0208 7 0 0208 7 0 020C 7	91	LONG	DSCSK_CLASS_	Da <dsc\$b_c< td=""><td>d PSTHRU message descripto LASS=8></td><td>r</td><td></td></dsc\$b_c<>	d PSTHRU message descripto LASS=8>	r	
		0A (0000	0218'010E000	0210 7 0210 7 021A 7 021A 7 021A 7	92 93 94 PSTHRU_CRLF: 95 96: 97; RMS storage	.ASCID	<13><10>	; <cr></cr>	<lf> for PSTHRU messages</lf>		
					021A 7	97 : RMS storage						

Page

00000000

00000003

00003FC0

```
798 :
799
800
                           .ALIGN LONG
          801 SYSINFAB::
                                                   FAC=GET, FNM=<SYS$INPUT> : To open SYS$INPUT
                            $FABDEF
                            SAVE LOCAL BLOCK
                            . NOCROSS
                            . IIF
                                       DIF <> <GLOBAL>..ENABLE SUPPRESSION
                             PSECT SABSS, ABS
                            SGBL INI
                                       IDN <LOCAL> <GLOBAL>
SDEF SYM,ALLOC,SIZ
                            . IF
                            .MACRO SDEF
                                       NB, SYM, SYM::
                            . IIF
                            . IIF
                                       NB, ALLOC,
SDEF
                                                               ALLOC
                                                                           SIZ
                            .ENDM
                             MACRO SEQU
                                                   SYM. VAL
                            SYM==VAL
                            .ENDM
0000
                             MACRO $VIELD1 MOD, SEP, SYM, SIZ, MSK
                           $17...=1
.IIF N
                           IIF NB, SIZ, SIZ...=SIZ

IF NB, SYM

MOD'SEP'V 'SYM==BIT...

IIF NB, SIZ, MOD'SEP'S_'SYM==SIZ

IIF NB, MSK, MOD'SEP'M_'SYM==<<<1asiz...>-1>abit...>
0000
0000
                            .ENDC
0000
                           BIT...=BIT...+SIZ...
ENDM $VIFLD1
0000
                           IFF.
0000
                           IIF DIF <LOCAL> <LOCAL>, ERROR ;ARG MUST BE "GLOBAL", "LOCAL",OR NULL MACRO SDEF SYM, ALLOC, SIZ NB, SYM, SYM:
IIF NB, SYM, SYM:
IIF NB, ALLOC, ALLOC SIZ
ENDM SDEF
0000
0000
0000
0000
                             MACRO SEQU
0000
                                                   SYM, VAL
0000
                            SYM=VAL
0000
                            .ENDM
                             .MACRO $VIELD1 MOD, SEP, SYM, SIZ, MSK
                            SIZ...=1
                           IIF NB, SIZ, SIZ...=SIZ

IF NB, SYM

MOD'SEP'V SYM=BIT...

IIF NB, SIZ, MOD'SEP'S 'SYM=SIZ

IIF NB, MSK, MOD'SEP'M SYM=<<<<1asiz...>-1>abit...>
                             ENDC
                           BIT...=BIT...+SIZ...
ENDM $VIELD1
                            .ENDC
                            .=0
                           FABSC_BID=3
                SEQU
                           FABSM_PPF_RAT 16320
FABSM_PPF_RAT=16320
                SEQU
```

0	RT VO
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Page

-	RI	EM	OT	E	•	TE	RM	1	NAL	PRO	GRAM
RE	A	0	WR	I	TI	E	DA	T	A		

RTPAD V04-000 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1

KEND	WILL DAIL			7-361
00004000	0000 0000 0000	\$EQU	FABSM_PPF_IND FABSM_PPF_IND=16	16384
00000002	0000 0000 0000 0000 0000	SEQU	FABSM_MXV FABSM_MXV=2	2
0000004	0000	\$EQU	FABSM_SUP FABSM_SUP=4	4
80000000	0000 0000 0000	\$EQU	FABSM_TMP FABSM_TMP=8	8
00000010	0000 0000 0000	\$EQU	FABSM_TMD FABSM_TMD=16	16
00000020	0000 0000 0000 0000	\$EQU	FABSM_DFW FABSM_DFW=32	32
00000040	0000 0000 0000	\$EQU	FAB\$M_\$Q0 FAB\$M_\$Q0=64	64
00000080	0000 0000 0000	S EQU	FAB\$M_RWO FAB\$M_RWO=128	128
00000100	0000 0000 0000	\$EQU	FAB\$M_POS FAB\$M_POS=256	256
00000200	0000 0000	SEQU	FABSM_WCK FABSM_WCK=512	512
00000400	0000 0000 0000	SEQU	FABSM_NEF FABSM_NEF=1024	1024
00800000	0000 0000 0000	\$EQU	FABSM_RWC FABSM_RWC=2048	2048
00001000	0000 0000 0000	\$EQU	FABSM_DMO FABSM_DMO=4096	4096
00002000	0000 0000 0000	\$EQU	FABSM_SPL=8192	8192
00004000	0000 0000 0000	\$EQU	FABSM_SCF FABSM_SCF=16384	16384
00008000	0000 0000 0000 0000	\$EQU	FABSM_DLT=32768	32768
00010000	0000	\$EQU	FABSM_NFS=65536	65536
00020000	0000 0000 0000	\$EQU	FABSM_UFO=131072	131072
00040000	0000 0000 0000	SEQU	FABSM_PPF FABSM_PPF=262144	262144

00000001

FABSM_SHRPUT=1

\$EQU

READ	WRITE	DATA			5-SEP-198
00080000	0000 0000		\$EQU	FABSM_INP FABSM_INP=52428	524288
00100000	0000		\$EQU	FABSM_CTG FABSM_CTG=10485	1048576
00200000	0000		\$EQU	FAB\$M_CBT FAB\$M_CBT=20971	2097152
00800000	0000		SEQU	FABSM_RCK FABSM_RCK=83886	8388608
01000000	0000		SEQU	FABSM_NAM FABSM_NAM=16777	16777216
02000000			SEQU	FABSM_CIF FABSM_CIF=33554	33554432
08000000	0000		\$EQU	FABSM_ESC FABSM_ESC=13421	134217728 7728
10000000	0000		\$EQU	FABSM_TEF FABSM_TEF=26843	268435456 35456
20000000	0000		\$EQU	FABSM_OFP FABSM_OFP=53687	536870912 '0912
40000000	0000		\$EQU	FABSM_KFO FABSM_KFU=10737	1073741824
00000001	0000		\$EQU	FABSM_PUT FABSM_PUT=1	1
00000002	0000		\$EQU	FABSM_GET FABSM_GET=2	2
0000004	0000		\$EQU	FABSM_DEL FABSM_DEL=4	4
80000000	0000		SEQU	FABSM_UPD FABSM_UPD=8	8
00000010	0000 0000		\$EQU	FABSM_TRN FABSM_TRN=16	16
00000020	0000		\$EQU	FABSM_BIO FABSM_BIO=32	32
00000040	0000		\$EQU	FABSM_BRO FABSM_BRO=64	64
08000000	0000 0000 0000		\$EQU	FABSM_EXE FABSM_EXE=128	128
	00080000 00100000 00200000 00800000 01000000 02000000 10000000 20000000 40000000 400000001 00000002 00000004 00000008 00000010 000000000	00000 0000 0000 0000 0000 0000 0000 0000	01000000 0000 02000000 0000 08000000 0000 10000000 0000 20000000 0000 20000000 0000 4000000 0000 0000 0000 0000 0000 0000	00000 \$EQU 00080000 \$0000 00100000 \$0000 00200000 \$0000 00200000 \$0000 00800000 \$0000 01000000 \$EQU 02000000 \$0000 01000000 \$EQU 02000000 \$0000 02000000 \$0000 08000000 \$EQU 00000 \$EQU 10000000 \$EQU 20000000 \$EQU 20000000 \$EQU 20000000 \$EQU 0000000 \$EQU 0000000 \$EQU 00000000 \$EQU 000000000 \$EQU 000000000 <td> O0000</td>	O0000

RTPAD V04-000	- REMOTE T	ERMINAL PROG	RAM L 1	16-SEP-1984 02:15:27 5-SEP-1984 03:15:47	VAX/VMS Macro V04-00 ERTPAD.SRCJRTPAD.MAR; 1	Page 42 (3)
	00000002 0000 0000000000000000000000000	\$EQU	FAB\$M_SHRGET FAB\$M_SHRGET=2	2		
	00000004	\$EQU	FABSM_SHRDEL FABSM_SHRDEL=4	4		
	00000008	\$EQU	FAB\$M_SHRUPD FAB\$M_SHRUPD=8	8		
	00000010	\$EQU	FABSM_MSE FABSM_MSE=16	16		
	00000020	\$EQU	FABSM_NIL FABSM_NIL=32	32		
	00000040	\$EQU	FABSM_UPI FABSM_UPI=64	64		
	00000000 0000	\$EQU	FAB\$C_SEQ FAB\$C_SEQ=0	0		
	00000010	\$EQU	FABSC_REL FABSC_REL=16	16		
	00000020	\$EQU	FAB\$C_IDX FAB\$C_IDX=32	32		
	00000030	\$EQU	FABSC_HSH FABSC_HSH=48	48		
	00000001 0000	SEQU	FABSM_FTN FABSM_FTN=1	1		
	00000002	\$EQU	FABSM_CR FABSM_CR=2	2		
	00000004 0000	\$EQU	FABSM_PRN FABSM_PRN=4	4		
	00000001 0000 0000 0000 0000 0000 0000	\$EQU	FABSM_BLK FABSM_BLK=8	8		
	00000002	\$EQU	FABSC_RFM_DFLT FABSC_RFM_DFLT=	22		
	00000000 0000	\$EQU	FAB\$C_UDF FAB\$C_UDF=0	0		
	00000001	\$EQU	FABSC_FIX FABSC_FIX=1	1		
	00000001 0000 0000 0000 0000 0000 0000	\$EQU	FABSC_VAR FABSC_VAR=2	2		
	0000 0000 0000 0000	\$EQU	FABSC_VFC FABSC_VFC=3	3		

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RTPAD V04-000	- REMOTE	TERMINAL PROGRA	AM M 1	16-SEP-1984 02:15:27 5-SEP-1984 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR; 1	Page 4
	00000004 0000 00000005 0000 00000006 0000 00000006 0000 00000000 0000 00000 0000	SEQU	FABSC_STM=4	4		
	00000005	\$EQU	FABSC_STMLF FABSC_STMLF=5	5		
	00000006	\$EQU	FABSC_STMCR=6	6		
	00000006	\$EQU	FABSC_MAXRFM FABSC_MAXRFM=6	6		
	00000001	SEQU	FAB\$M_RU FAB\$M_RU=1	1		
	00000002	\$EQU	FABSM_AI FABSM_AI=2	2		
	00000004	\$EQU	FABSM_BI FABSM_BI=4	4		
	00000050	\$EQU	FAB\$K_BLN FAB\$K_BLN=80	80		
	0000 0000 0000 0000 0000	SEQU	FABSC_BLN FABSC_BLN=80	80		
	0000 0000 0000 0000	\$EQU	FAB\$S_FABDEF FAB\$S_FABDEF=80	80		
	0000 0000 0000 0000	\$EQU	FAB\$B_BID FAB\$B_BID=0	0		
	0000 0000 0000 0000	\$EQU	FAB\$B_BLN FAB\$B_BLN=1	1		
	00000002 0000	\$EQU	FABSR_IFI_OVERLA	AY 2 AY=2		
	00000005 0000 0000 0000	\$EQU	FABSW_IFI FABSW_IFI=2	2		
	00000005 0000 0000 0000	\$EQU	FAB\$R_IFI_BITS FAB\$R_IFI_BITS=	2		
	0000 0000 0000 0000	\$EQU	FABSS_PPF_RAT FABSS_PPF_RAT=8	8		
	0000 0000 0000 0000	\$EQU	FABSV_PPF_RAT FABSV_PPF_RAT=6	6		
	00000001 0000 0000 0000 0000 0000 0000	\$EQU				

FABSR_FOP_OVERLAY FABSR_FOP_OVERLAY=4

SEQU

00000004

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RTPAD V04-000	- REMOTE 1	TERMINAL PROG E DATA	RAM N 1	16-SEP-1984 02:15:27 5-SEP-1984 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR; 1	Page 44 (3)
	00000004 0000 0000000000000000000000000	\$EQU	FAB\$L_FOP FAB\$L_FOP=4	4		
	00000004 0000	\$EQU	FABSR_FOP_BITS	=4,4		
	00000001	\$EQU	FABSV_MXV FABSV_MXV=1	1		
	00000002	\$EQU	FABSV_SUP FABSV_SUP=2	2		
	0000 0000 0000 0000	\$EQU	FABSV_TMP FABSV_TMP=3	3		
	0000 0000 0000 0000	\$EQU	FABSV_TMD FABSV_TMD=4	4		
	0000 0000 0000 0000	\$EQU	FABSV_DFW FABSV_DFW=5	5		
	0000 0000 0000 0000	\$EQU	FABSV_SQO FABSV_SQO=6	6		
	0000 0000 0000 0000	\$EQU	FABSV_RWO FABSV_RWO=7	7		
	0000 0000 80000000	\$EQU	FABSV_POS FABSV_POS=8	8		
	0000 0000 0000 0000	\$EQU	FABSV_WCK FABSV_WCK=9	9		
	0000 0000 0000 0000	\$EQU	FABSV_NEF FABSV_NEF=10	10		
	0000 0000 0000 80000000	\$EQU	FABSV_RWC FABSV_RWC=11	11		
	0000	SEQU	FABSV_DMO FABSV_DMO=12	12		
	0000 0000 0000 0000	\$EQU	FABSV_SPL FABSV_SPL=13	13		
	00000000 0000 0000 0000 0000 0000 0000	\$EQU	FABSV_SCF FABSV_SCF=14	14		
		\$EQU	FABSV_DLT FABSV_DLT=15	15		
	0000000F 0000 0000 0000 0000 0000 0000	\$EQU	FABSV_NFS FABSV_NFS=16	16		
	00000011 0000 0000	SEQU	FABSV_UFO FABSV_UFO=17	17		

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VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR; 1

- READ	MOTE TERM	MINAL PROG	RAM	16-SEP-1984 02:15:27 5-SEP-1984 03:15:47
00000012	0000 0000 0000	\$EQU	FABSV_PPF FABSV_PPF=18	18
00000013	0000	\$EQU	FABSV_INP FABSV_INP=19	19
	0000	SEQU	FABSV CTG	20

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B 2

55

00000014	0000	0240	FABSV_CTG=20	60
00000015	0000 0000 0000	\$EQU	FABSV_CBT FABSV_CRT=21	21

SEQU.

READ WRITE	RMINAL PROGRAM DATA	C 2 16-	SEP-1984 02:15:27 SEP-1984 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.mar;1	Page	46
0000 0000 0000 0000 0000 0000 0000 0000	SEQU FABS	V_GET 1				
00000002	SEQU FABSI	V_DEL=2				
0000003	SEQU FABSI					
00000003 0000 0000 0000 0000 0000 0000	SEQU FABSI	V_TRN 4 V_TRN=4				
0000 0000 0000 0000	SEQU FABS	V_BIO 5 V_BIO=5				
00000005 0000 0000 0000 0000 0000	SEQU FABS	_				
0000	SEQU FABSI	V_EXE 7 V_EXE=7				
00000007 0000 0000 0000 0000 0000	SEQU FABSE	R_SHR_OVERLAY R_SHR_OVERLAY=23	23			
00000 0000 0000 0000 0000	SEQU FABSE	B_SHR 23 B_SHR=23				
0000 0000 0000 0000	SEQU FABSE	R_SHR_BITS 23 R_SHR_BITS=23				
0000000	SEQU FABSA	/_SHRPUT 0 /_SHRPUT=0				
0000 0000 0000 0000	SEQU FABSV	/_SHRGET 1 /_SHRGET=1				
0000 0000 0000 0000	SEQU FABSV	/_SHRDEL 2 /_SHRDEL=2				
0000 0000 0000 0000	SEQU FABSV	/_SHRUPD 3 /_SHRUPD=3	ь			
00000001 0000 0000000000000000000000000	SEQU FABSV					
0000 0000 0000 0000	SEQU FABSI					
0000 0000 0000 0000	SEQU FABSV					
0000 0000 0000 0000	SEQU FABSL					
0000001c 0000	SEQU FABSE					

RTI VO

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	(3)	

- REMOTE TERMINAL PROGRAM READ WRITE DATA

RTPAD VO4-000 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1

				2 051 17	-
00000010	0000 0000 0000	\$EQU	FABSR_ORG_OVERLAY FABSR_ORG_OVERLAY	±29 29	ı
0000001D	0000 0000 0000	\$EQU	FAB\$B_ORG=29	9	
0000001D	0000 0000 0000	\$EQU	FABSR_ORG_BITS 29	9	
00000004	0000 0000 0000	\$EQU	FAB\$S_ORG 4 FAB\$S_ORG=4		
00000004	0000 0000 0000	\$EQU	FAB\$V_ORG 4 FAB\$V_ORG=4		
0000001E	0000 0000 0000	\$EQU	FABSR_RAT_OVERLAY FABSR_RAT_OVERLAY	=30	
0000001E	0000 0000 0000	\$EQU	FAB\$B_RAT FAB\$B_RAT=30		
0000001E	0000 0000 0000	SEQU	FAB\$R_RAT_BITS 30 FAB\$R_RAT_BITS=30	0	
00000000	0000 0000 0000	\$EQU	FABSV_FTN 0		
	0000	\$EQU	FABSV_FTN=0 FABSV_CR 1		
00000001	0000 0000 0000	\$EQU	FABSV_CR=1 FABSV_PRN 2		
00000002	0000 0000 0000	\$EQU	FAB\$V_PRN=2 FAB\$V_BLK 3		
00000003	0000 0000 0000	\$EQU	FABSV_BLK=3 FABSB_RFM 3	1	
0000001F	0000 0000 0000	\$EQU	FABSB_RFM=31		
00000020	0000 0000 0000	\$EQU	FABSL_JNL=32		
00000024	0000		FABSL_XAB=36		
85000000	0000 0000 0000	\$EQU	FABSL_NAM 40		
00000020	0000 0000 0000	\$EQU	FABSL_FNA 44 FABSL_FNA=44		
00000030	0000 0000 0000	SEQU	FABSL_DNA 48		
00000034	0000	\$EQU	FABSB_FNS 50 FABSB_FNS=52	2	

0 2

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- REM	OTE TERMINAL PR WRITE DATA	ROGRAM E 2	16-SEP-1984 02: 5-SEP-1984 03:	15:27 VAX/VMS Macro V04-00 15:47 [RTPAD.SRC]RTPAD.MAR;1	Page 48
00000035	0000 0000 \$EQU	FABSB_DNS FABSB_DNS=53	53		
	0000 0000 0000 \$ EQU		54		
	0000 0000 \$ FQU	_	56		
00000030	0000 0000 0000 \$ EQL	_	60		
0000003E	\$EQU 0000 0000 0000 \$EQU		62		
0000003F	0000 \$ EQU		63		
00000040	0000 0000 \$ EQL	_	64		
00000044	0000 0000 0000 \$ EQL		68		
00000048	0000 0000 \$EQ L 0000 0000	_	72		
0000004A	0000 \$ EQU		OVERLAY 74 OVERLAY=74		
0000004A	0000 0000 \$EQU		_ 74		
0000004A	0000 0000 \$EQU	FABSR_ACMODES FABSR_ACMODES	BITS 74 BITS=74		
	0000 0000 \$ EQU 0000	FABSS_LNM_MODE FABSS_LNM_MODE	=2		
00000000	0000 \$ EQU	FABSV_LNM_MODE			
00000002	0000 0000 \$ EQU	FABSS_CHAN_MOD FABSS_CHAN_MOD)E 2)E=2		
00000002	0000 \$EQU 0000 0000 0000 \$EQU	FABSV_CHAN_MOD FABSV_CHAN_MOD	DE 2 DE=2		
00000002	0000 0000 \$ EQU 0000 0000	FABSS_FILE_MOD FABSS_FILE_MOD	DE 2 DE=2		
00000004	\$EQU 0000 0000	FABSV_FILE_MOD)E 4)E=4		
00000048	0000 0000 \$EQU	FABSR_RCF_OVER			

RTPAD V04-000

```
5
                                                           16-SEP-1984 02:15:27
5-SEP-1984 03:15:47
                                                                                                                                   (3)
       - REMOTE TERMINAL PROGRAM
                                                                                        YAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1
      READ WRITE DATA
             0000
0000
0000
                                     FABSB_RCF=75
                           SEQU
0000004B
                           SEQU
                                     FAB$R_RCF_BITS 75
FAB$R_RCF_BITS=75
0000004B
             FABSV_RU
FABSV_RU=0
                           SEQU
00000000
                                     FABSV_AI
FABSV_AI=1
                           SEQU
00000001
                                     FAB$V_BI=2
                           $EQU
00000002
                                     SDEFEND FAB. DEF
.MACRO SFABDEF A
                                      .ENDM SFABDEF
                                      .IIF
                                               DIF <> <GLOBAL>,.DISABLE
                                                                                         SUPPRESSION
                                      . CROSS
        00000210
                                      . RESTORE
             021C
021C
021C
                            $$R_TABINIT FAB$C_BID, FAB$C_BLN
.IIF NE .&3, .print ;%MACRO-I=GENINFO, Generated INFO: RMS BLOCK NOT LONGWORD ALIGNE
             021C
021C
021C
021D
021E
00000210
                           $$. TAB=.
                                     .BYTE FABSC_BLN
.BLKB FABSC_BLN-2
00000260
             0590
                           $$.TABEND=.
             059C
                                     SSR_VBFSET
                                                          FAB, <>
             059C
059C
059C
00000000
                           $$.TMP=0
                                      .IRP X,<>
                                     .IF DF FABSV 'X
$$.TMP=$$.TMP!<1@FABSV_'X>
                                      .IFF
                                                .ERROR
                                                                    ; UNDEFINED BIT VALUE CODE: X;
                                      .ENDC
                                      .ENDR
.=$$.TAB+FAB$L_FOP
                                     .ADDRESS $5.
=$$.TAB+FAB$L_ALQ
                                      . ADDRESS
                                       WORD
                                     SSR_VBFSET
                                                          FAB, <GET>
00000000
                           $$. TMP=0
                                     .IRP X, <GET>
                                               $$.TMP=$$.TMP!<1@FAB$V_'X>
                                      . IFF
                                                .ERROR
                                                                    : UNDEFINED BIT VALUE CODE: X;
                                     .ENDC
                                      .ENDR
                                      . IF DF FABSV_GET
```

RTPAD V04-000

RT Syl

```
G 2
RTPAD
VO4-000
                                     - REMOTE TERMINAL PROGRAM READ WRITE DATA
                                                                                                              VAX/VMS Macro V04-00 
ERTPAD.SRCJRTPAD.MAR; 1
                                                                                                                                                      50 (3)
                               00000002
                                                                          $$.TMP=$$.TMP!<1@FAB$V_GET>
                                                                 .IFF
                                                                           .ERROR
                                                                                             : UNDEFINED BIT VALUE CODE: GET:
                                                                 .ENDC
                                                                  BYTE $5.TMP
                                      02
                                                                 $$R_VBFSET
                                                                                    FAB. <>
                               00000000
                                                        $$. TMP=0
                                                                 .IRP X <> .IF DF FABSV_'X
                                                                          $$.TMP=$$.TMP!<1@FAB$V_'X>
                                                                 .IFF
                                                                           .ERROR
                                                                                             : UNDEFINED BIT VALUE CODE: X;
                                                                 .ENDC
                               000000000
                                                                  .BYTE
                                                                          SS. TMP
                                                                  ADDRESS
                                                                  BYTE
                                                                 . IF DF FABSC SEQ
                                                                  IFF
                                                                  BYTE
                                                                  . ERROR
                                                                                             : UNDEFINED VALUE FOR FIELD : SEQ:
                                                                  . ENDC
                                                                 $$R_VBFSET
                                                                                    FAB, <>
                               00000000
                                                        $$.TMP=0
                                                                 .IRP X,<>
                                                                 .IF DF FABSV 'X
$$.TMP=$$.TMP!<1@FAB$V_'X>
                                                                 . IFF
                                                                           .ERROR
                                                                                             ; UNDEFINED BIT VALUE CODE: X;
                                                                 .ENDC
                                                                 .BYTE $$.TMP
.IF DF FAB$C VAR
.BYTE FAB$C VAR
                                      00
                                                                 .IFF
.BYTE
                                                                  ERROR
                                                                                             : UNDEFINED VALUE FOR FIELD : VAR:
                                                                  ENDC
                               00000000
                                                                  .ADDRESS
                                                                  ADDRESS
                                                                  ADDRESS
                                                                  ADDRESS
                                                                  ADDRESS.
                                                                  BYTE
                                                                  .BYTE
                               . WORD
                                                                  _ADDRESS
                                                                  WORD
                                                                  BYTE
                                                                 .BYTE
                                                                 .=$$.TAB+FAB$W_GBC
                                                                 . WORD
```

RT

```
H 2
RTPAD
                                         - REMOTE TERMINAL PROGRAM
                                                                                              16-SEP-1984 02:15:27
5-SEP-1984 03:15:47
                                                                                                                           VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR; 1
                                                                                                                                                                       51 (3)
                                                                                                                                                                Page
V04-000
                                         READ WRITE DATA
                                                                         .BYTE <<O@FAB$V_LNM_MODE> + <O@FAB$V_CHAN_MODE> + -
<O@FAB$V_FILE_MODE>>
.IIF NE 8-8. .ERROR ; INVALID BYTE SIZE
.IF NB <SYS$INPUT>
                                                                         SAVE PRECT SEMENAM
                                          00000000
                                   00000000
                                                                         SS. TMPX=.
                                                                        ASCII XSYSSINPUTX
$5.TMPX1=.-$5.TMPX
           54 55 50 4E 49 24
                                   53 59 53
                                   00000009
                                          00000267
                                                                        .=$$.TAB+FAB$L_FNA
$$.TMPX
                                                                         . RESTORE
                                   00000248 0267
00000000 0248
00000250 0246
                                                                        ADDRESS SS.
-$$.TAB+FAB$B FNS
BYTE $$.TMPX1
                                                                         . ENDC
                                                                         . IF NB <>
                                                                         . SAVE
                                                                         PSECT SRMSNAM
                                                                         SS. TMPX=.
                                                                         .ASCII XX
                                                                         $$.TMPX1=.-$$.TMPX
                                                                         .RESTORE
                                                                         .=$$.TAB+FAB$L_DNA
                                                                         .=$$.TAB+FAB$B DNS
.BYTE $$.TMPX1
                                                                         .BYTE
                                                                         .ENDC
                                   00000260
                                                                         .=$$.TABEND
                                                026C
026C
026C
026C
026C
026C
                                                         802
803 SYSINRAB::
                                                                                   SRAB
                                                                                             FAB=SYSINFAB
                                                              SRABDEF
                                                                        SAVE LOCAL BLOCK
                                                                         . NOCROSS
                                                                         . IIF
                                                                                  DIF <> <GLOBAL>,.ENABLE SUPPRESSION
                                                                         .PSECT $ABS$, ABS
                                                0000
                                                                         SGBLINI
                                                                                   IDN <LOCAL> <GLOBAL>
SDEF SYM, ALLOC, SIZ
NB, SYM, SYM:
                                                0000
                                                                         .MACRO SDEF
                                                IIF
                                                                                   NB, ALLOC.
                                                                                                       ALLOC
                                                                                                                  SIZ
                                                                         -ENDM
                                                                                   SDEF.
                                                                         .MACRO SEQU
                                                                                             SYM, VAL
                                                                         SYM==VAL
                                                                         ENDM
                                                                                  SEQU
                                                                        .MACRO $VIELD1 MOD, SEP, SYM, SIZ, MSK
SIZ...=1
                                                                        BIT...=BIT...+SIZ...
ENDM $VIELD1
```

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- REMOTE TERMINAL READ WRITE DATA	PROGRAM	2 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 Page 52 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1 (3)
0000 0000 0000 0000 0000 0000 0000 0000 0000	IIF NB, IIF NB	<pre><local> <local>, ERROR ; ARG MUST BE 'GLOBAL'', 'LOCAL'', OR NULL SYM, ALLOC, SIZ ALLOC, ALLOC SIZ SYM, VAL U ELD1 MOD, SEP, SYM, SIZ, MSK SIZ, SIZ=SIZ SYM SYM=BIT SIZ, MOD'SEP'S_'SYM=SIZ MSK, MOD'SEP'M_'SYM=<<<1@SIZ>-1>@BIT>+SIZ</local></local></pre>
00000000 0000	.=0	
00000001 0000 0000	RABSC_BID=1	1
00003FC0 0000 0000	RABSM_PPF_RASM_PPF_RABSM_PPF_RABSM_PPF_RASM_PPF_	
00004000 0000	EQU RABSM_PPF_II	
00000001 0000	EQU RABSM_ASY RABSM_ASY=1	1
00000002 0000	EQU RABSM_TPT RABSM_TPT=2	2
0000 0000 0000 \$	EQU RABSM_REA RABSM_REA=4	4
0000	EQU RABSM_RRL RABSM_RRL=8	8
0000 0000 0000 \$	EQU RABSM_UIF RABSM_UIF=16	16
0000	EQU RAB\$M_MAS RAB\$M_MAS=32	32
0000 0000 0000 \$	EQU RABSM_FDL RABSM_FDL=64	64
0000 0000 0000 \$	EQU RABSM_HSH RABSM_HSH=12	128
0000	EQU RABSM_EOF RABSM_EOF=25	256

RTPAD VO4-000

RTPAD V04-000		TERMINAL PROGREDATA	AM J 2	16-SEP-1984 02:15:27 5-SEP-1984 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1	Page 53 (3)
	00000200 0000 0000 0000 0000 0000 0000	\$EQU	RABSM_RAH RABSM_RAH=512	512		
	00000400	\$EQU	RABSM_WBH RABSM_WBH=1024	1024		
	00000800	\$EQU	RAB\$M_810 RAB\$M_B10=2048	2048		
	00000800 0000 0000 0000 0000 0000 0000	\$EQU	RABSM_LV2 RABSM_LV2=4096	4096		
	00002000	\$EQU	RAB\$M_LOA RAB\$M_LOA=8192	8192		
	00002000 0000 0000 0000 0000 0000 0000	\$EQU	RAB\$M_LIM RAB\$M_LIM=16384	16384		
	00010000 0000	\$EQU	RAB\$M_LOC RAB\$M_LOC=65536	65536		
	00010000 0000 0000 0000 0000 0000 0000	\$EQU	RABSM_WAT RABSM_WAT=13107			
	00040000 0000	\$EQU	RABSM_ULK RABSM_ULK=26214	262144		
	0008 0000 0000 0000	SEQU	RABSM_RLK RABSM_RLK=52428	524288 8		
	00100000 0000	\$EQU	RABSM_NLK RABSM_NLK=10485	1048576 76		
	00200000 0000	\$EQU	RABSM_KGE RABSM_KGE=20971			
	0040000 0000 0000	SEQU	RABSM_KGT RABSM_KGT=41943			
	0000	SEQU	RABSM_NXR RABSM_NXR=83886	8388608 08		
	01000000 0000 01000000 0000	\$EQU	RABSM_RNE RABSM_RNE=16777	16777216 216		
	00040000 0000 00080000 0000 00100000 0000 00200000 0000 00200000 0000 00400000 0000 0000 01000000 0000 01000000 0000 02000000 0000 0400000 0000 0400000 0000 0800000 0000 0800000 0000 0800000 0000 00000	\$EQU	RABSM_TMO RABSM_TMO=335544			
	0400000 0000 0000	\$EQU	RABSM_CVT RABSM_CVT=67108	67108864 864		
	0800000 0000 0000	\$EQU	RABSM_RNF RABSM_RNF=13421			
	10000000 0000	\$EQU	RABSM_ETO RABSM_ETO=26843			

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Page 54 (3)	R'V
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- R	EMOTE TERM D WRITE DA	INAL PROGRA	M K 2	16-SEP-1984 5-SEP-1984	02:15:27 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1
20000000	0000 0000 0000	SEQU	RABSM_PTA RABSM_PTA=53687	536870912 0912		
40000000	0000 0000		RABSM_PMT RABSM_PMT=107374	1073741824 41824		
80000000	0000 0000 0000	SEQU	RABSM_CCO RABSM_CCO=-21476	-2147483648 483648		
00000000	0000 0000 0000		RABSC_SEQ RABSC_SEQ=0	0		
00000001	0000 0000 0000	\$EQU	RABSC_KEY RABSC_KEY=1	1		
00000002	0000 0000 0000		RABSC_RFA RABSC_RFA=2	2		
00000003	0000 0000 0000		RAB\$C_STM RAB\$C_STM=3	3		
00000044	0000 0000 0000		RAB\$K_BLN RAB\$K_BLN=68	68		
00000044	0000 0000 0000		RAB\$C_BLN RAB\$C_BLN=68	68		
00000044	0000 0000		RAB\$S_RABDEF RAB\$S_RABDEF=68	68		
00000000	0000 0000 0000	\$EQU	RAB\$B_BID RAB\$B_BID=0	0		
0000001	0000 0000	\$EQU	RAB\$B_BLN RAB\$B_BLN=1	1		
00000002	0000 0000 0000	\$EQU	RAB\$R_ISI_OVERLA	14=5 5		
00000002	0(\00 0(\00 0(\00	SEQU	RABSW_ISI RABSW_ISI=2	2		
00000002	0000 0000		RAB\$R_ISI_BITS RAB\$R_ISI_BITS=			
00000008	0000 0000	SEQU	RAB\$S_PPF_RAT RAB\$S_PPF_RAT=8	8		
00000006	0000 0000 0000		RABSV_PPF_RAT RABSV_PPF_RAT=6	6		
0000000E	0000 0000 0000		RABSV_PPF_IND RABSV_PPF_IND=14			
00000004	0000 0000	\$EQU	RABSR_ROP_OVERLA	AY 4 AY=4		

RTPAD VO4-000

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Page 55 (3)

- READ	MOTE TERMINAL	. PROGRAM	L	2	16-SEP-1984 5-SEP-1984	02:15:27 03:15:47	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR;1
00000004	0000 0000 0000 0000	EQU R	AB\$L_ROP AB\$L_ROP=4	4			
00000004	0000	EQU R	AB\$R_ROP_B AB\$R_ROP_B	1750 4 1750=4			
00000000			AB\$V_ASY AB\$V_ASY=0	0			
00000001	0000		AB\$V_TPT AB\$V_TPT=1	1			
00000002	0000		AB\$V_REA AB\$V_REA=2	2			
00000003	0000		AB\$V_RRL AB\$V_RRL=3	3			
00000004	0000		AB\$V_UIF AB\$V_UIF=4	4			
00000005	0000		AB\$V_MAS AB\$V_MAS=5	5			
00000006	0000		AB\$V_FDL AB\$V_FDL=6	6			
00000007	0000		AB\$V_HSH AB\$V_HSH=7	7			
00000008	0000	EQU R	AB\$V_EOF AB\$V_EOF=8	8			
00000009	0000	EQU R	AB\$V_RAH AB\$V_RAH=9	9			
0000000A	0000 0000 0000 0000	EQU R	AB\$V_WBH AB\$V_WBH=1	0 10	0		
00000008	0000		AB\$V_BIO AB\$V_BIO=1	1 1	1		
00000000	0000 0000 0000	EQU R	AB\$V_LV2 AB\$V_LV2=1	. 1	2		
00000000	0000 0000 0000 0000 0000	EQU R	AB\$V_LOA AB\$V_LOA=1	13	3		
0000000E	0000 0000 0000	EQU R	ABSV_LIM ABSV_LIM=1	14	4		
00000010	0000	EQU R	ABSV_LOC=1	. 10	6		
00000011	0000	EQU R	ABSV_WAT	17	7		

RTPAD V04-000

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RTPAD V04-000	- REMOTE READ WRITE	TERMINAL PROG	RAM M 2	16-SEP- 5-SEP-	1984 02:15:27 1984 03:15:47	VAX/VMS Macro VO4-00 [RTPAD.SRC]RTPAD.MAR;1	Page	56 (3)
	00000012 0000 00000 00000 00000 00000 00000 00000	\$EQU	RABSV_ULK RABSV_ULK=18	18				
	00000013	\$EQU	RAB\$V_RLK RAB\$V_RLK=19	19				
	00000014	\$EQU	RAB\$V_NLK RAB\$V_NLK=20	20				
	00000015	\$EQU	RAB\$V_KGE RAB\$V_KGE=21	21				
	00000016	\$EQU	RAB\$V_KGT RAB\$V_KGT=22	22				
	00000017 0000	\$EQU	RAB\$V_NXR RAB\$V_NXR=23	23				
	00000018	\$EQU	RAB\$V_RNE RAB\$V_RNE=24	24				
	00000019	\$EQU	RAB\$V_TMO RAB\$V_TMO=25	25				
	0000001A 0000	\$EQU	RAB\$V_CVT RAB\$V_CVT=26	26				
	0000001B 0000	\$EQU	RAB\$V_RNF RAB\$V_RNF=27	27				
		\$EQU	RABSV_ETO RABSV_ETO=28	28				
	0000001p 0000	\$EQU	RABSV_PTA RABSV_PTA=29	29				
	0000001E 0000	\$EQU	RABSV_PMT=30	30				
	0000001F 0000	\$EQU	RABSV_CCO RABSV_CCO=31	31				
	00000004 0000	\$EQU	RABSR_ROP_FIELD)\$ \$=4	4			
	00000005	\$EQU	RAB\$B_ROP1 RAB\$B_ROP1=5	5				
	00000006	\$EQU	RAB\$B_ROP2 RAB\$B_ROP2=6	6				
	0000001p 0000 0000 0000 0000 0000 0000 0	\$EQU	RAB\$8_ROP3 RAB\$8_ROP3=7	7				
	00000008	\$EQU	RAB\$L_STS RAB\$L_STS=8	8				

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RTPAD V04-000	- REMOTE 1 READ WRITE	ERMINAL PROG	RAM N 2	16-SI 5-SI	EP-1984 EP-1984	02:15:27 03:15:47	VAX/VMS Macro V04-00 ERTPAD.SRCJRTPAD.MAR; 1	Page	57
	0000000C 0000 000000C 0000 0000000 0000 000000 0000 000000 0000 000000	\$EQU	RABSR_STV_OVERL	AY AY=12	12				
	00000000 0000	\$EQU	RAB\$L_STV RAB\$L_STV=12	12					
	00000000 0000	\$EQU	RABSR_STV_FIELD	S=12	12				
	00000000 0000	SEQU	RABSW_STV0 RARSW_STV0=12	12					
	0000000E 0000	SEQU	RABSW_STV2 RABSW_STV2=14	14					
	0000 0000 0000 0000	\$EQU	RABSR_RFA_OVERL	AY AY=16	16				
	0000 0000 0000 0000	\$EQU	RABSS_RFA RABSS_RFA=6	6					
	0000 0000 0000 0000	\$EQU	RABSW_RFA RABSW_RFA=16	16					
	0000 0000 0000 0000	\$EQU	RABSR_RFA_FIELD	S=16	16				
	0000 0000 0000 0000	SEQU	RABSL_RFAO RABSL_RFAO=16	16					
	0000 0000 0000 0000	SEQU	RABSW_RFA4 RABSW_RFA4=20	20					
	0000 0000 0000 0000	\$EQU	RABSL_CTX RABSL_CTX=24	24					
	0000 0000 0000 0000	\$EQU	RABSB_RAC	30					
	00000015	SEQU	RABSB_TMO RABSB_TMO=31	31					
	0000001F 0000 0000 0000	SEQU	RABSW_USZ RABSW_USZ=32	32					
	00000020 0000 0000 0000	\$EQU	RABSW_RSZ RABSW_RSZ=34	34					
	00000022 0000 0000 0000	\$EQU	RABSU_RSZ=34 RABSL_UBF RABSL_UBF=36	36					
	00000024 0000 0000 0000	SEQU	RAB\$L_RBF	40					
	00000028 0000	SEQU	RABSL_RBF=40	44					
	0000002c 0000	\$5.00	RAB\$L_RHB RAB\$L_RHB=44	44					

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- REI	MOTE TER WRITE D	MINAL PROGR	RAM B 3	16-S 5-S	EP-1984 03	15:27	VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR; 1	Page	58
00000030	0000 0000	\$EQU	RABSR_KBF_OVER	LAY LAY=48	48				
00000030	0000 0000 0000	\$EQU	RAB\$L_KBF RAB\$L_KBF=48	48					
00000030	0000 0000 0000 0000 0000	\$EQU	RAB\$L_PBF RAB\$L_PBF=48	48					
00000034	0000	\$EQU	RABSR_KSZ_OVER		52				
00000034	0000 0000 0000	\$EQU	RABSB_KSZ RABSB_KSZ=52	52					
00000034	0000 0000 0000	\$EQU	RABSB_PSZ RABSB_PSZ=52	52					
00000035	0000 0000 0000	\$EQU	RABSB_KRF RABSB_KRF=53	53					
00000036	0000	\$EQU	RAB\$B_MBF RAB\$B_MBF=54	54					
00000037	0000 0000 0000	\$EQU	RAB\$B_MBC RAB\$B_MBC=55	55					
00000038	0000	\$EQU	RABSR_BKT_OVER	LAY LAY=56	56				
00000038	0000 0000 0000	SEQU	RAB\$L_BKT RAB\$L_BKT=56	56					
00000038	0000 0000	\$EQU	RAB\$L_DCT RAB\$L_DCT=56	56					
0000003C	0000 0000 0000 0000	\$EQU	RAB\$L_FAB RAB\$L_FAB=60	60					
00000040	0000	\$EQU	RAB\$L_XAB RAB\$L_XAB=64	64					
000	0000 0000 0000 0000 0000 0000		SDEFEND RAB, DE .MACRO SRABDE .ENDM SRABDE	A	L>,.DISABL	E	SUPPRESSION		
	059C 059C	SSR_TA	INIT	RAB\$C	BID, RABS	BLN	ed INFO: RMS BLOCK NOT LON		0.01
00000260	026C 026C 026C 026D 026E	SS. TAB	.83, .print ; % .BYTE RABSC_BL		-GENINFO,	Generat	ed INFO: RMS BLOCK NOT LON	IGWORD AL	1 GN
00000280	059E		BYTE RABSC BL	N-5 N					

RTPAD VO4-000

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```
C 3
       - REMOTE TERMINAL PROGRAM READ WRITE DATA
                                                                                                   VAX/VMS Macro V04-00 [RTPAD.SRC]RTPAD.MAR; 1
               02B0
02B0
02B0
000002B0
                               $$.TABEND=.
                                          $$R_VBFSET RAB, <>
00000000
                               $$. TMP=0
                                         .IRP X,<>
.IF DF RAB$V 'X
$$.TMP=$$.TMP!<1@RAB$V_'X>
                                                                             ; UNDEFINED BIT VALUE CODE: X;
                                           .ENDC
00000270
00000000°
00000284
00000000°
                                          .=$$.TAB+RAB$L_ROP
.ADDRESS $$
                                           .=$$.TAB+RAB$L_CTX
                                           . ADDRESS
                                           .=$$.TAB+RAB$B RAC
.IF DF RAB$C SEQ
.BYTE RAB$C_SEQ
         00
                                           . IFF
                                           BYTE
                                           . ERROR
                                                                                         ; UNDEFINED VALUE FOR FIELD: CNST;
                                           .ENDC
                                           BYTE
                                           . WORD
      0000
                                           . WORD
00000000
00000000
00000000
00000000
                                           . ADDRESS
                                           . ADDRESS
                                           ADDRESS
                                           . ADDRESS
                                           .IF NB <>
                                           .=$$.TAB+RAB$L_PBF
                                           . ADDRESS
                                           ENDC
        00
                                           BYTE
                                           .IF NB <>
                                           .=$$.TAB+RAB$B_PSZ
                                           .BYTE
                                            ENDC
00
00
00
00000000°
00000000°
00000280
                                            BYTE
                                           BYTE
                                           . ADDRESS
                                           . ADDRESS
                                                                  SYSINFAB
                                           .ADDRESS
.=$$.TABEND
```

02B0

804

RTPAD

V04-000

RTPAD V04-000	- READ	MOTE TERMINAL WRITE DATA	PROGRAM	D 3	16-SEP-1984 03 5-SEP-1984 03	2:15:23 3:15:4	7 VAX/VMS Macro V04-00 7 [RTPAD.SRC]RTPAD.MAR;1	Page	60 (3)
		02B0 806 02B0 807 02B0 808 02B0 809	Flags						
	90	0280 810	IDFLAG::	BYTE	0	; Inc	dicate indirect command file		
	00	02B1 813 W	KEFLAG::	.BYTE	0	; Fla	ng for legitimate \$WAKE		
	00000000	02B2 815 C1	ERM_FLAG::	.LONG	0	; TS/	A/CTERM flags (see \$RTPADDEF)		
	00000000	02B6 817 R1	LOG_FLAGS::	.LONG	0	; va	lue of RTPADSLOG		
		02BA 820 :	other misc. g	lobal st	orage				
	00000010 000002c2' 000002p2	02BA 822 R1	LOG_DESC:	LONG	16 RTLOG_BUF	; RTI	PAD\$LOG value		
24 44 41 50 54 52 000002D		02D2 826 02D2 827 R1	'LOG_BUF: 'PAD_LOGNAM:	.BLKB	/RTPAD\$LOG/				
	00000309	02E3 829 02E3 830 R1	SAB_ASTBLK::	.BLKB	AST\$T_BUF	; Dur	mmy AST block		
	00000000	0309 831 0309 832 RE 0300 833 QU 0311 834	TSTATUS::	LONG	0	; San	ve a system service status ve PC where error happened		
	02000000		RSTCMD::	.LONG	DSC\$K_CLASS_Dad	CDSC\$B	rst command descriptor _CLASS*8>		
	00	0319 838 0319 839 PR 031A 840 031A 841 HG	10TO_ECO::	.BYTE	0	; pro	otocol eco level		
	0000	031A 841 HO	ST_OPSYS:	.WORD	0	; hos	st system		
		0311 835 F1 0311 836 0315 837 0319 838 0319 839 PR 031A 840 031C 842 031C 843 031C 845 031C 845 031C 846 031C 847 031C 848 0320 849 OL 0324 851 F1 0764 852 0764 853 PM	local storage						
	00000000	031C 846 031C 847 OL	DCTRL:	.LONG	0	; CLI	l out of band enable flags		
	00000000	0320 848 0320 849 OL	DSETRUM:	.LONG	0		iginal resource wait mode		
	00000764	0320 848 0320 849 0L 0324 850 0324 851 F1 0764 852 0764 853 MA	RSTMSG:	.BLKB	ASTST_BUF+MAXMS		uffer for BIND message		
	0000041A	0764 853 M	XMSGS1Z:	.LONG	MAXMSG	; Max	kimum message size		

```
E 3
        - REMOTE TERMINAL PROGRAM PROTOCOL TABLE PSECTS
                                                                           16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1
                                                                                                                                                            Page 61 (3)
         00000000
0000
0000
0000
                                               .SBTTL
.PSECT
                                                            PROTOCOL TABLE PSECTS PROTOTB, BYTE, NOEXE
                           85678901234566789012
866666666789012
                                  PROTOTBL:
0010
00000463°
0004
00000000°
                                               .WORD
.LONG
.WORD
                                                                                                      <4> => (TERM protocol
This is the initialization entry
                                                            <184>
                                                            CTERM_RT
<102>
                                                                                                      <2> => VMS remote terminal protocol
                                               .LONG
                                                            VMSRT
                                                                                                    ; This is the initialization entry
         00000000
0000000
0000
0000
0000
0000
                                               .PSECT
                                                           PROTOTBL, BYTE, NOEXE
                                               .PSECT PROTOTBL1, BYTE, NOEXE
                                  ENDPROTO:
                                               .END
                                                            RTPAD
```

RTPAD

V04-000

RTPAD Symbol table	- REMOTE TERMINAL PROGRAM F 3 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 Pa 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR;1	age 62
	- REMOTE TERMINAL PROGRAM 16-SEP-1984 03:15:27 VAX/VMS Macro V04-00 Pa 0000026 R 03 FABSL_FNA = 00000002 00000001 FABSL_FNA = 00000002 00000001 FABSL_FNA = 00000002 00000001 FABSL_FNA = 00000002 00000000	ge 62 (3)

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RTPAD Symbol table	- REMOTE TERMINAL PROGRAM	G 3 16-SEP-1984 02:15:27 VAX/VMS Macro V04-00 Page 63 5-SEP-1984 03:15:47 [RTPAD.SRC]RTPAD.MAR:1 (3)
QUIT PC RABSB_RAC RABSC_BID RABSC_BID RABSC_SEQ RABSL_CTX RABSL_ROP RDWRTCHAN READCHAN RECORD_QUIT REMS_ATPC REMS_END REMS_FACILITY REMS_NOTERM REMOTENODE RETSTATUS RTSAB_ASTBLK RTLOG_SV_BANNER RTLOG_BUF RTLOG_DESC RTLOG_FLAGS RTPAD RTPAD_LOGNAM SHRSK_SHRDEF SHRS_TEXT SSS_EXQUOTA SSS_NOSUCHNODE SSS_NOTRAN SSS_WASCLR	= 0000030D RG 03 = 00000001 = 00000001 = 00000004 = 00000014C RG 03 0000014C RG 03 0000049C RG 01 = 01FE115B	
STR\$APPEND STR\$CONCAT STR\$FREE1_DX STS\$K_INFO SYS\$ASSIGN SYS\$CANCEL SYS\$CLOSE SYS\$CONNECT SYS\$GETDEV SYS\$GETDEV SYS\$GETDIW SYS\$GETJPIW SYS\$HIBER SYS\$NODE SYS\$OPEN SYS\$PUTMSG SYS\$QIOW SYS\$SETAST SYS\$SETAST SYS\$SETANM SYS\$TRNLOG SYS\$INFAB TERMSEMULATE TERMCHAR TERMMBXCHAN	******* X 01 *******	

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! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes				
ABS . RTPAD SABS\$ RTPAD SRMSNAM PROTOTB PROTOTBL PROTOTBL1	00000000 (0.) 00000586 (1462.) 00000000 (0.) 00000768 (1896.) 00000009 (9.) 00000000 (12.) 00000000 (0.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.) 05 (5.) 06 (6.) 07 (7.)	NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR	CON ABS CON REL	LCL NOSHR NOEX LCL NOSHR EX LCL NOSHR EX LCL NOSHR EX LCL NOSHR NOEX LCL NOSHR NOEX LCL NOSHR NOEX LCL NOSHR NOEX	E RD RD RD RD RD RD	NOWRT NOVEC BYTE NOWRT NOVEC BYTE WRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.08	00:00:00.77
Command processing	129	00:00:00.47	00:00:04.39
Pass 1	694	00:00:17.42	00:01:07.76
Symbol table sort	31	00:00:02.85	00:00:13.32
Pass 2 Symbol table output	578	00:00:04.24	00:00:19.02
Psect synopsis output	Ó	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	1466	00:00:25.22	00:01:45.84

The working set limit was 2400 pages.
173467 bytes (339 pages) of virtual memory were used to buffer the intermediate code.
There were 150 pages of symbol table space allocated to hold 2667 non-local and 46 local symbols.
872 source lines were read in Pass 1, producing 31 object records in Pass 2.
63 pages of virtual memory were used to define 56 macros.

! Macro library statistics !

Macro library name

_\$255\$DUA28:[RTPAD.OBJ]RTPAD.MLB;1

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all libraries)

Macros defined

4

2

4

5255\$DUA28:[SYSLIB]STARLET.MLB;2

52

3096 GETS were required to define 52 macros.

RTPAD

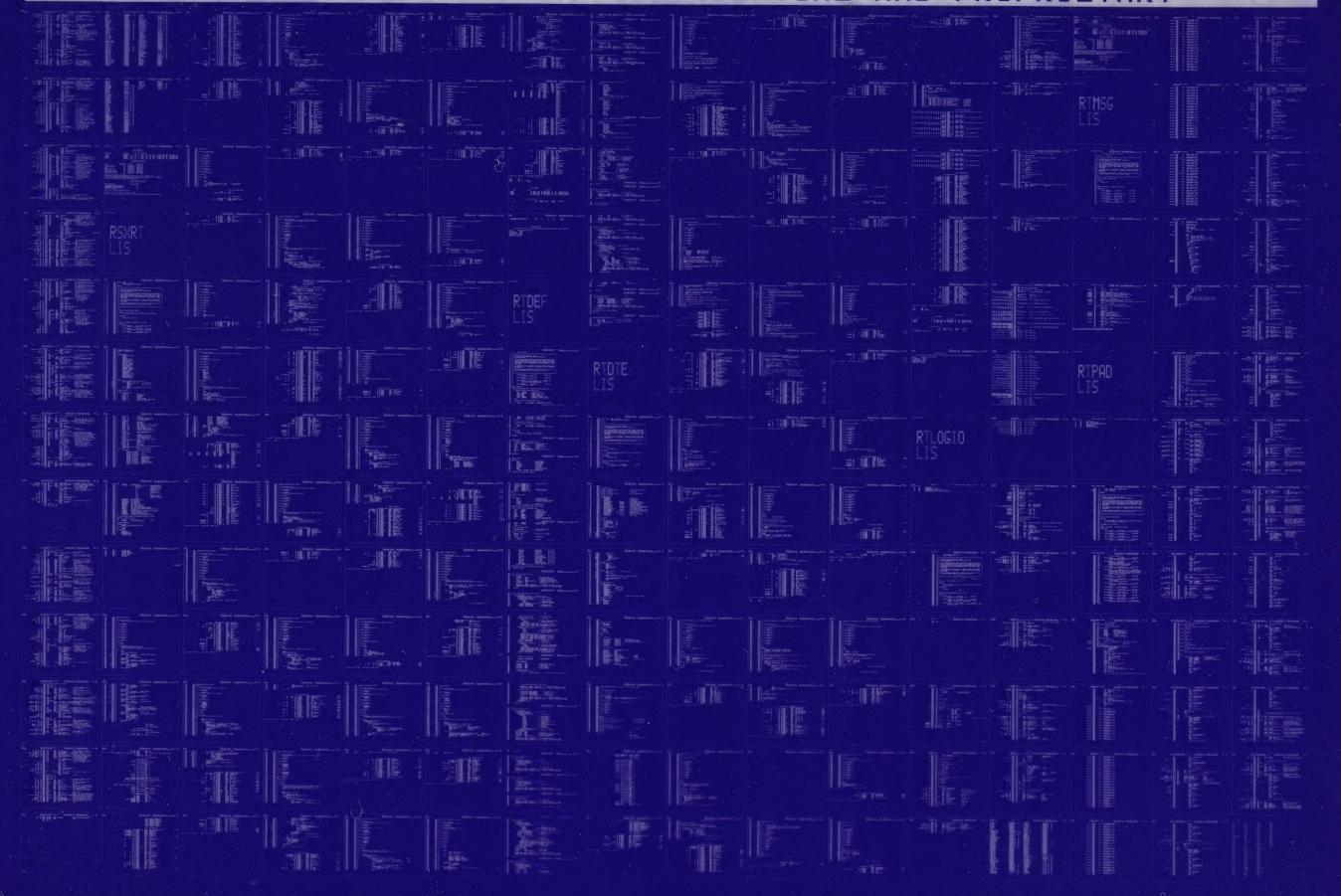
Psect synopsis

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RTPAD/OBJ=OBJ\$:RTPAD MSRC\$:RTPAD/UPDATE=(ENH\$:RTPAD)+EXECML\$/LIB+LIB\$:RTPAD/LIB

0334 AH-BT13A-SE

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